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From
Jamil Khader.
Met. Department
Baghdad
IRAQ
J. Khader

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National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

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(1)

PREFACE

The project of publishing a Climatological Atlas for Iraq was under study since 1940.

Difficulties during wartime have prevented the publication of the Atlas. So in 1945 the Atlas was published under D.F. Booth Senior Met. Officer Baghdad Airport.

In the meantime all the copies of that Atlas have been distributed and many requests could not be satisfied.

Instead of reprinting the mentioned Atlas it has been decided to issue a completely new edition, using the Climatological Values up-to-date adding a number of new graphs following recommendations of WMO.

The datas used for the graphs are going to be published in detail in a special publication. The lack of the former Atlas due to inhomogeneity of most of the observations and short-term informations could not be avoided completely in this issue, of course, because the same datas have been used. But the fact, those datas at least 12 years more were available reduced the statistical error considerably, and it can be assumed, that the presented Atlas gives a quite accurate picture of the normal weather - conditions in Iraq.

ACKNOWLEDGEMENT

The Atlas has been prepared by the Climatological Section of the Meteorological Department at Baghdad-Airport under Sayid Naman Jamil Sultan. The elaborate calculations and the checking of all observations as well as all the copy work has been done by Sayid Andrawis Jamil Qashat, Farhan Abdul Karim Al Saad and Hanna Sadiq Shadda. The whole work was directed and supervised by Dr. Ernst Lingelbach.

My fullest Acknowledgement is tendered to all of them.

Towfiq Fattah
Director of Met. Department
Baghdad - Airport
IRAQ

**Geographical Data and
Period of records for the different observations used for the preparation of this Atlas**
**Precipitation, Temperature, Pressure, Humidity, Cloudiness,
Thunderstorm, Fog, Dust and Wind**

Observed at	Latitude	Longitude	Height above MSL in meters	Period
Mosul	36 19 N.	43 09 E.	222.6 m.	1923-1956
Kirkuk	35 28 N.	44 24 E.	330.8 m.	1935-1956
Khanaqin	34 18 N.	45 26 E.	201.2 m.	1936-1956
Baghdad	33 20 N.	44 24 E.	34.1 m.	1937-1956
Habbaniya	33 22 N.	43 34 E.	43.6 m.	1935-1956
Rutba	33 02 N.	40 17 E.	615.5 m.	1928-1956
Hai	32 10 N.	46 03 E.	14.9 m.	1940-1956
Diwaniya	31 59 N.	44 59 E.	20.4 m.	1939-1956
Nasiriya	31 01 N.	46 14 E.	3.0 m.	1940-1956
Basra	30 34 N.	47 47 E.	2.4 m.	1937-1956

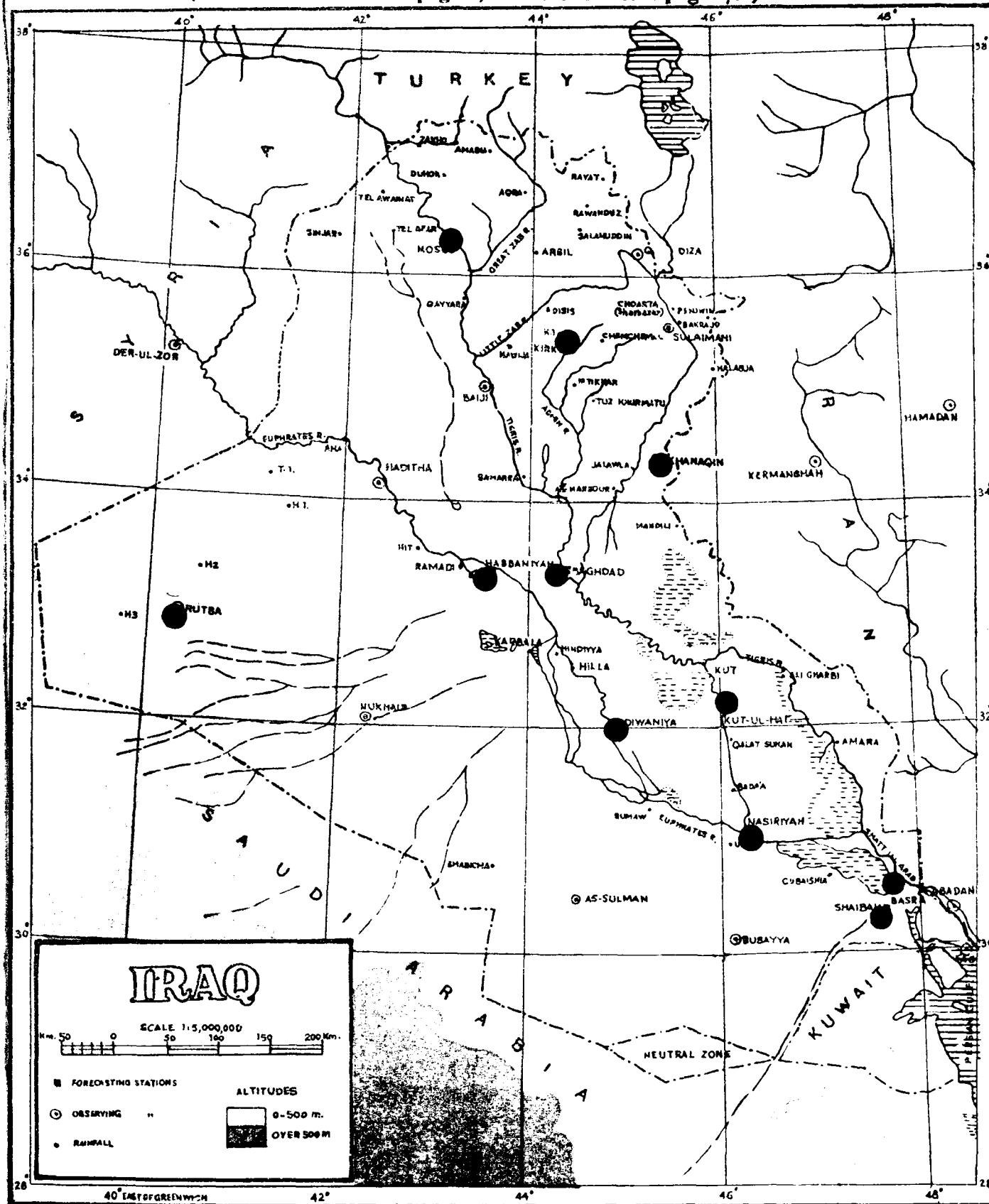
Precipitation only

Observed at	Latitude	Longitude	Height above MSL in meters	Period
Zakho	37 08 N.	42 41 E.	442 m.	1935-1956
Amadia	37 05 N.	43 30 E.	1236 m.	1935-1956
Rawanduz	36 37 N.	44 33 E.	1006 m.	1935-1956
Aqra	36 45 N.	43 58 E.	716 m.	1935-1956
Telawaınat	36 41 N.	42 24 E.	346 m.	1938-1956
Sinjar	36 19 N.	41 50 E.	476 m.	1935-1956
Telaafar	36 22 N.	42 28 E.	273 m.	1939-1956
Qayara	35 48 N.	43 17 E.	180 m.	1938-1946
Arbil	36 11 N.	44 00 E.	414 m.	1935-1956
Chamchamal	35 32 N.	44 51 E.	701 m.	1939-1956
Sulaimaniya	35 33 N.	45 27 E.	853 m.	1935-1956
Penjawin	35 37 N.	45 58 E.	1311 m.	1939-1956
Bakrajo	35 34 N.	45 23 E.	750 m.	1936-1956
Halabja	35 11 N.	45 59 E.	724 m.	1935-1956
Iftikhar	35 03 N.	44 27 E.	204 m.	1935-1956
Chuarta	35 44 N.	45 33 E.	1356 m.	1942-1956
Salahaddin	36 37 N.	44 13 E.	1088 m.	1940-1956
Rayat	36 41 N.	44 57 E.	2610 m.	1942-1956
Sanat	36 46 N.	42 48 E.	— m.	1944-1956
Duhok	36 52 N.	43 02 E.	860 m.	1943-1956
Mirzrustam	36 03 N.	44 58 E.	459 m.	1945-1956
Shaqlawa	36 23 N.	44 20 E.	— m.	1945-1956
Sirsank	36 58 N.	43 32 E.	1046 m.	1945-1956
Binkird	36 03 N.	45 03 E.	708 m.	1952-1956
Tuz	34 53 N.	44 39 E.	220 m.	1935-1956
Ana	34 28 N.	41 27 E.	— m.	1935-1956
Diala (Sedor)	34 05 N.	45 01 E.	68 m.	1943-1956
Jalawlaa	34 16 N.	45 09 E.	119 m.	1935-1956
Hit	33 38 N.	42 50 E.	58 m.	1952-1956
Karbalaa	32 37 N.	44 01 E.	29 m.	1935-1956

(3)

Observed at	Latitude		Longitude		Height above MSL in meters	Period
Hindiya	32	42	N.	44 17 E.	24 m.	1936-1956
Hilla	32	29	N.	44 26 E.	27 m.	1935-1956
Kut	32	30	N.	45 45 E.	19 m.	1935-1956
Mandily	33	45	N.	45 33 E.	137 m.	1935-1956
Nukhaib	32	02	N.	42 15 E.	305 m.	1935-1956
Amara	31	51	N.	47 10 E.	9 m.	1935-1956
Shabicha	30	42	N.	43 41 E.	— m.	1935-1956
Samawa	31	18	N.	45 16 E.	6 m.	1935-1956
Badaa	31	26	N.	46 11 E.	9 m.	1936-1956
Ur	30	58	N.	46 08 E.	4 m.	1935-1956
Ghabishiya	30	44	N.	47 05 E.	4 m.	1935-1956
Maqil	30	34	N.	47 47 E.	2 m.	1935-1956
Fao	29	59	N.	48 30 E.	2 m.	1935-1956
Bir Uglia	37	00	N.	42 13 E.	420 m.	1935-1940
Dibis	35	41	N.	44 05 E.	239 m.	1936-1946
Baiji	34	56	N.	43 29 E.	115 m.	1935-1944
Samirra	34	11	N.	43 50 E.	65 m.	1935-1951
Rumadi	33	25	N.	43 17 E.	48.7 m.	1923-1936
Haditha	34	04	N.	42 22 E.	140 m.	1934-1944
Hawijah	35	31	N.	44 18 E.	305 m.	1940-1956
T 1	34	13	N.	41 20 E.	318 m.	1936-1941
T 2	34	27	N.	40 10 E.	— m.	1936-1939
H 1	33	47	N.	41 28 E.	409 m.	1934-1944
H 2	33	21	N.	40 36 E.	593 m.	1934-1944
H 3	32	57	N.	39 45 E.	13 m.	1934-1944
Qalat Sukar	31	52	N.	46 05 E.	13 m.	1934-1954
Ali al Gharbi	32	28	N.	46 41 E.	13 m.	1939-1947
Salman	30	28	N.	44 43 E.	202 m.	1935-1944
Bussaya	30	02	N.	46 09 E.	144 m.	1935-1944

M A P O F I R A Q
and
Main Observation Stations of the Iraqi Meteorological Department
(Rain Fall Stations see page 6, Period of Records page 2/3)



6

THE VALLEY OF EUPHRATES AND TIGRIS
Cross Section along line
Sinjar—Baghdad—Basrah

2 KM

1 KM

MSL

SINJAR

BAIJI

BAGHDAD

KUT

BASRAH

Cross Section along $33^{\circ} 30'$ North

3 KM

2 KM

1 KM

MSL

DAMASCUS

RUTBA

BAGHDAD

3 KM

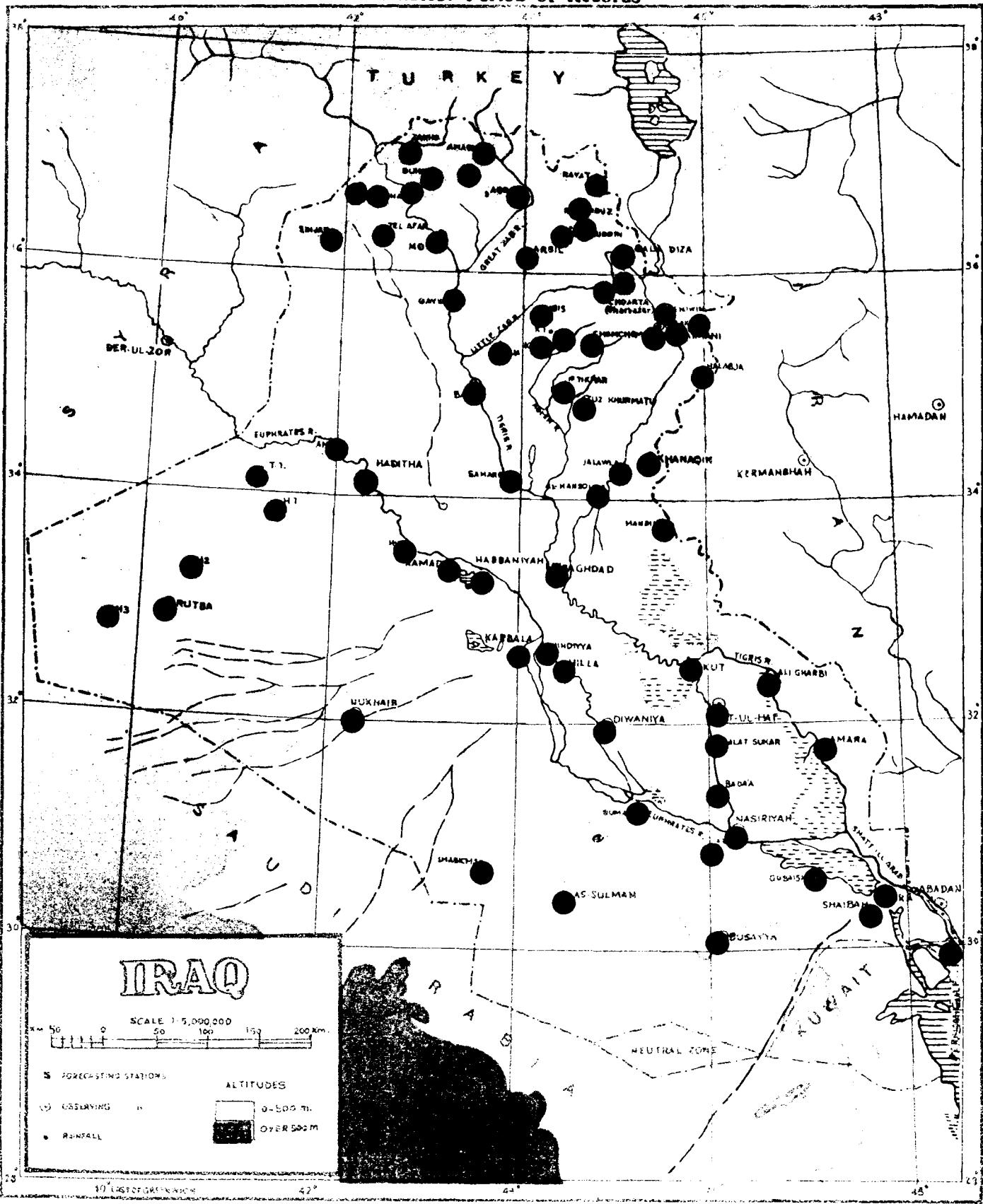
2 KM

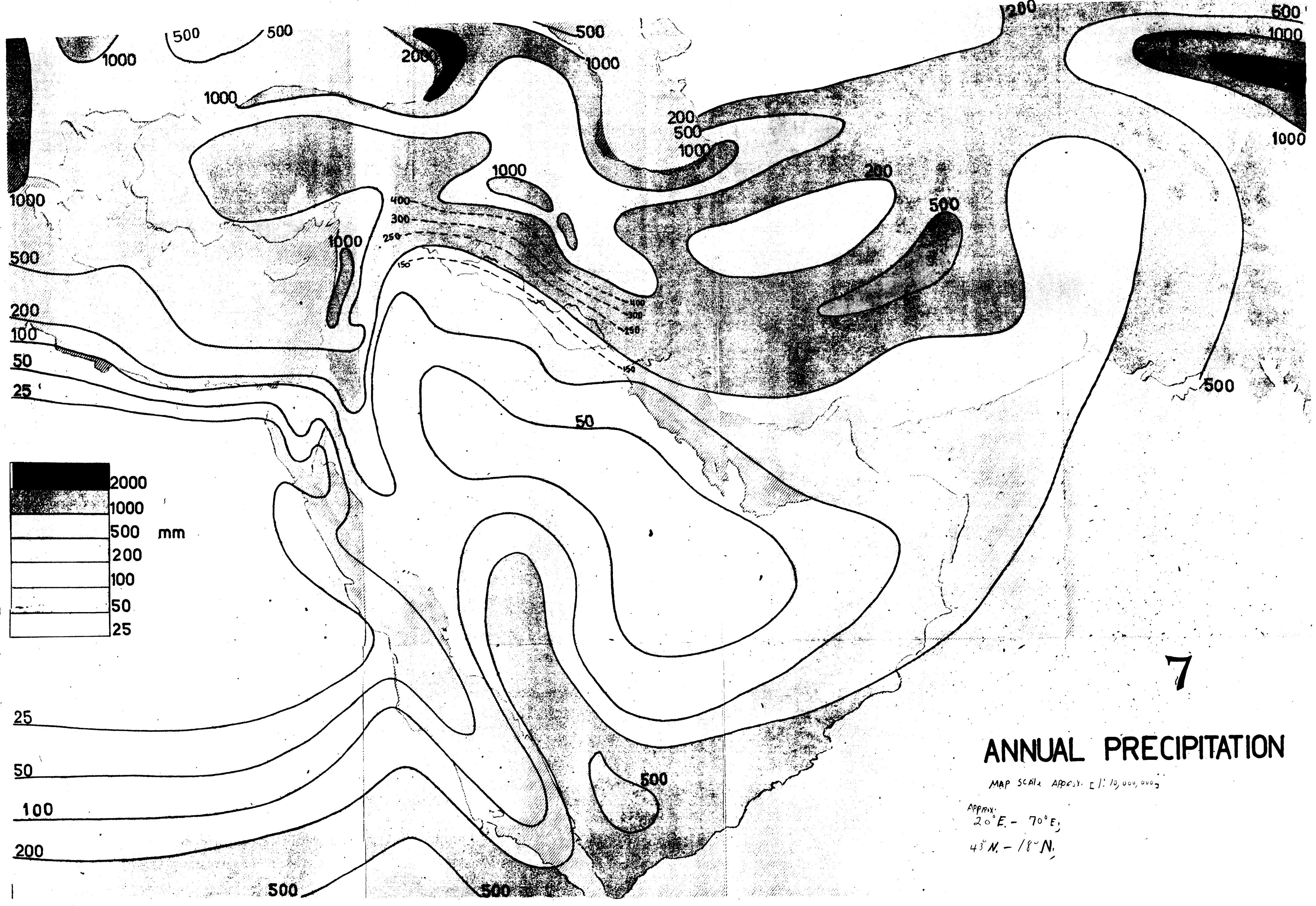
1 KM

MSL

P R E C I P I T A T I O N
Location of Rain—Gauges
See notes: Period of Records

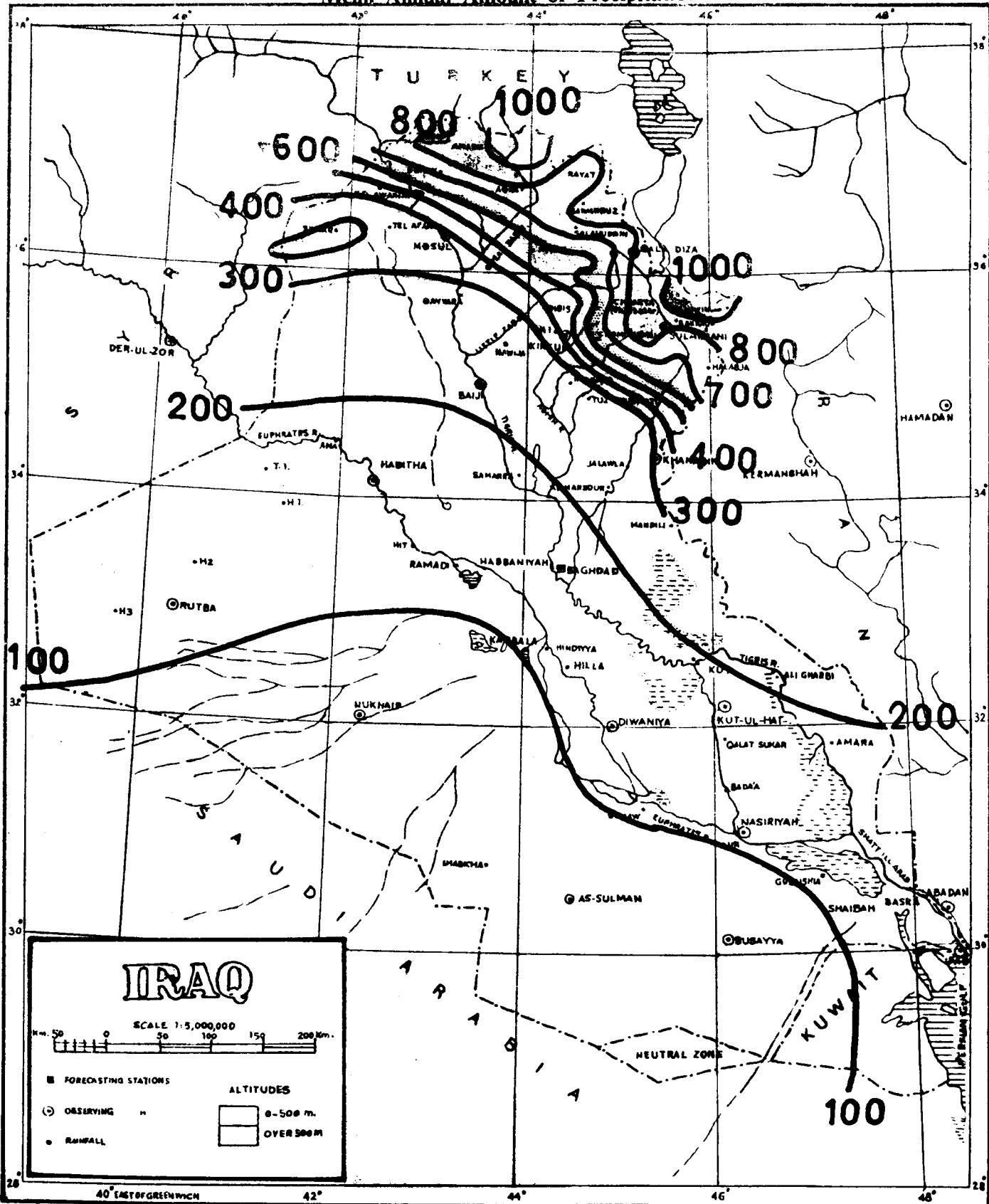
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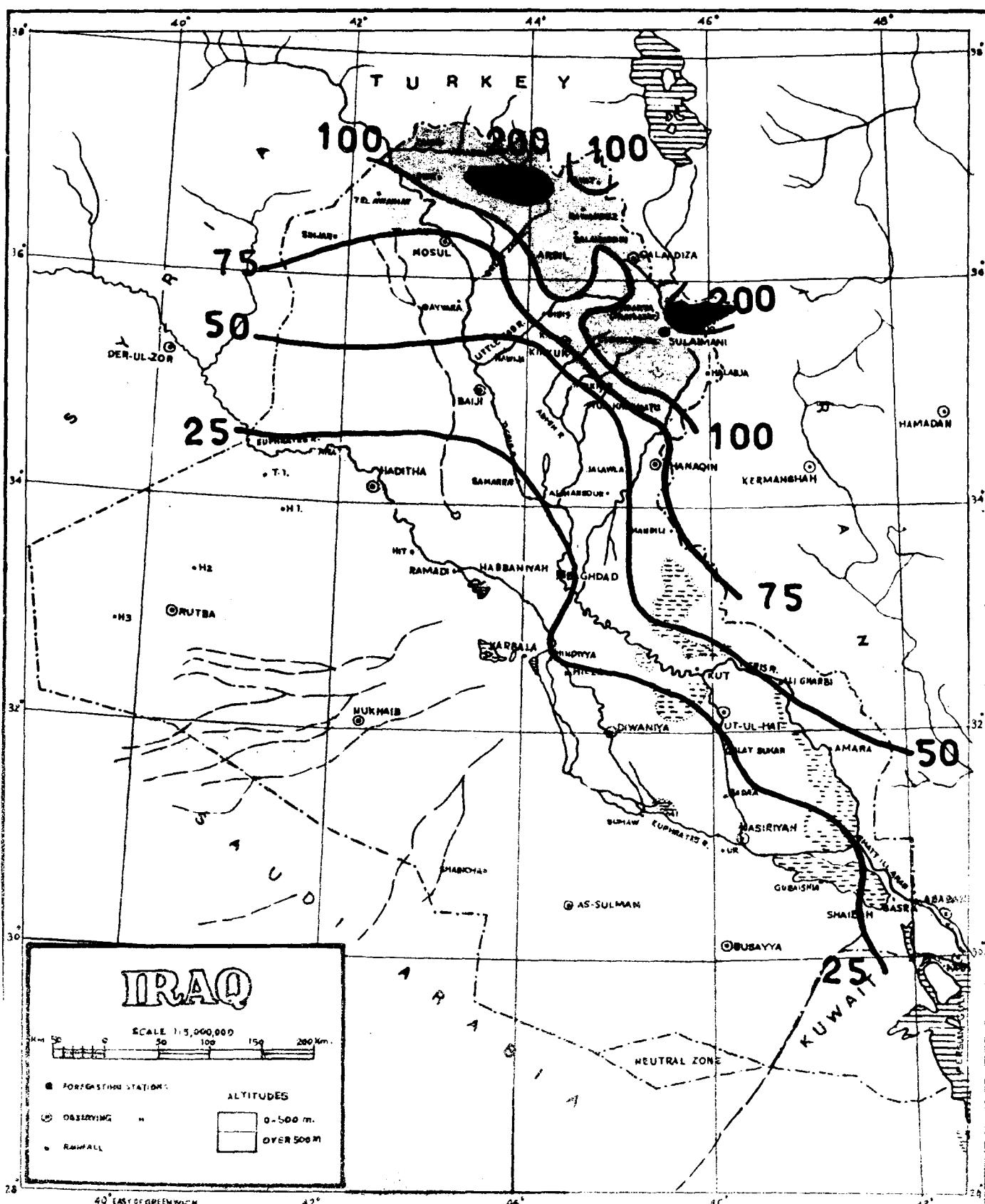
P R E C I P I T A T I O N
Mean Annual Amount of Precipitation

8



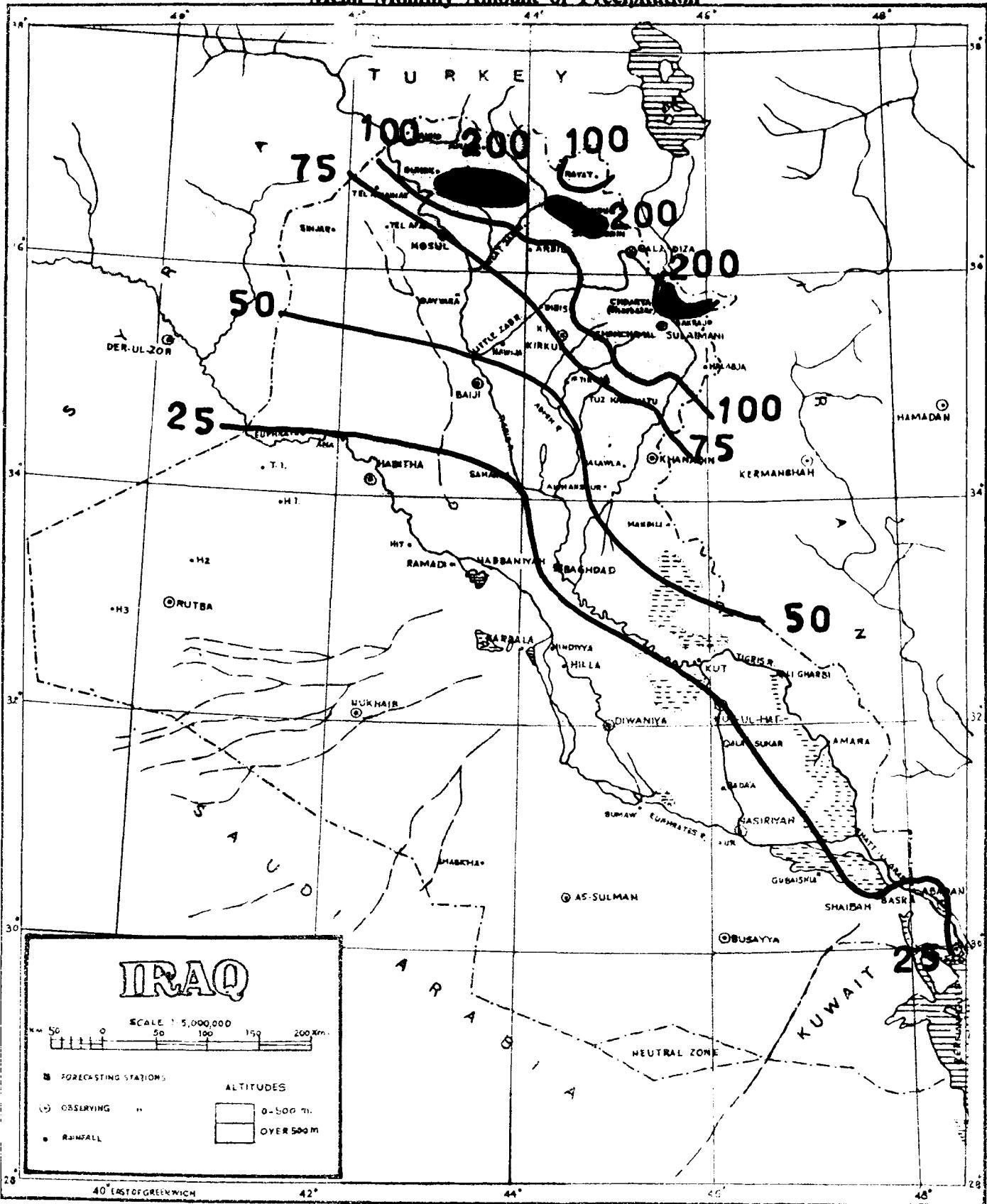
P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

JANUARY

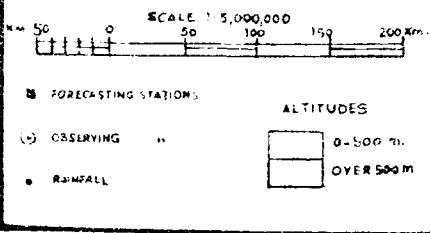


10
FEBRUARY

PRECIPITATION
Mean Monthly Amount of Precipitation



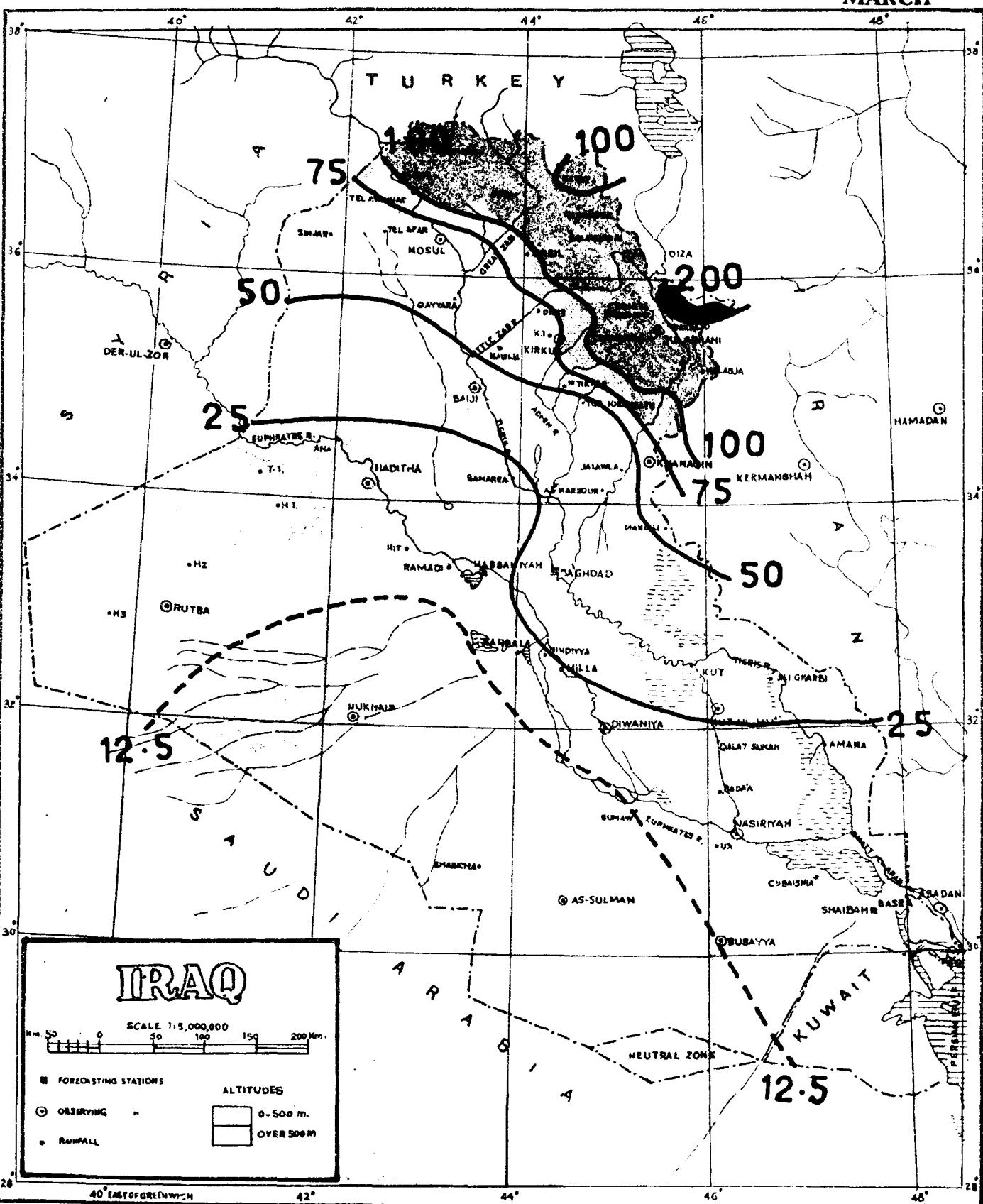
IRAQ



P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

11

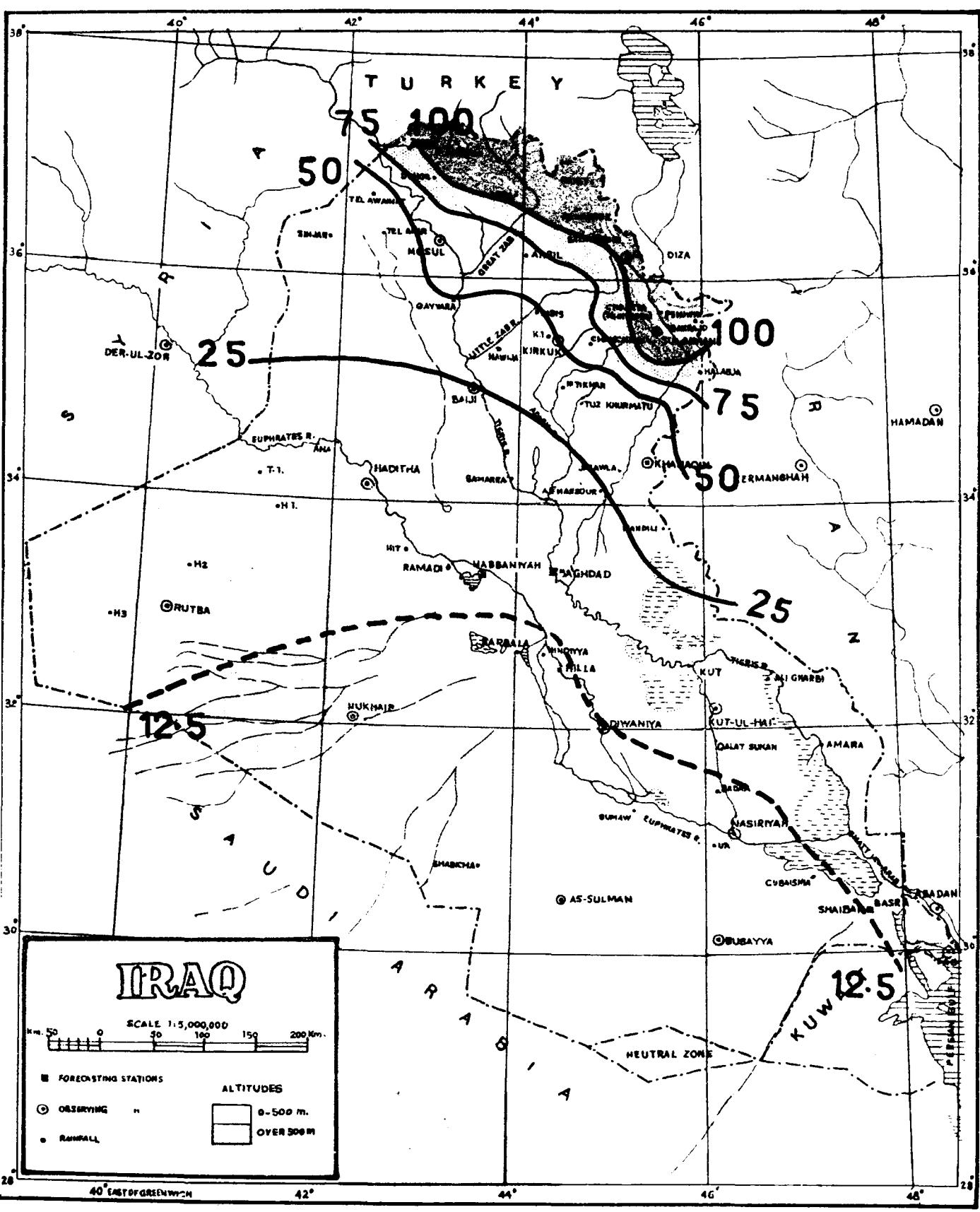
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P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

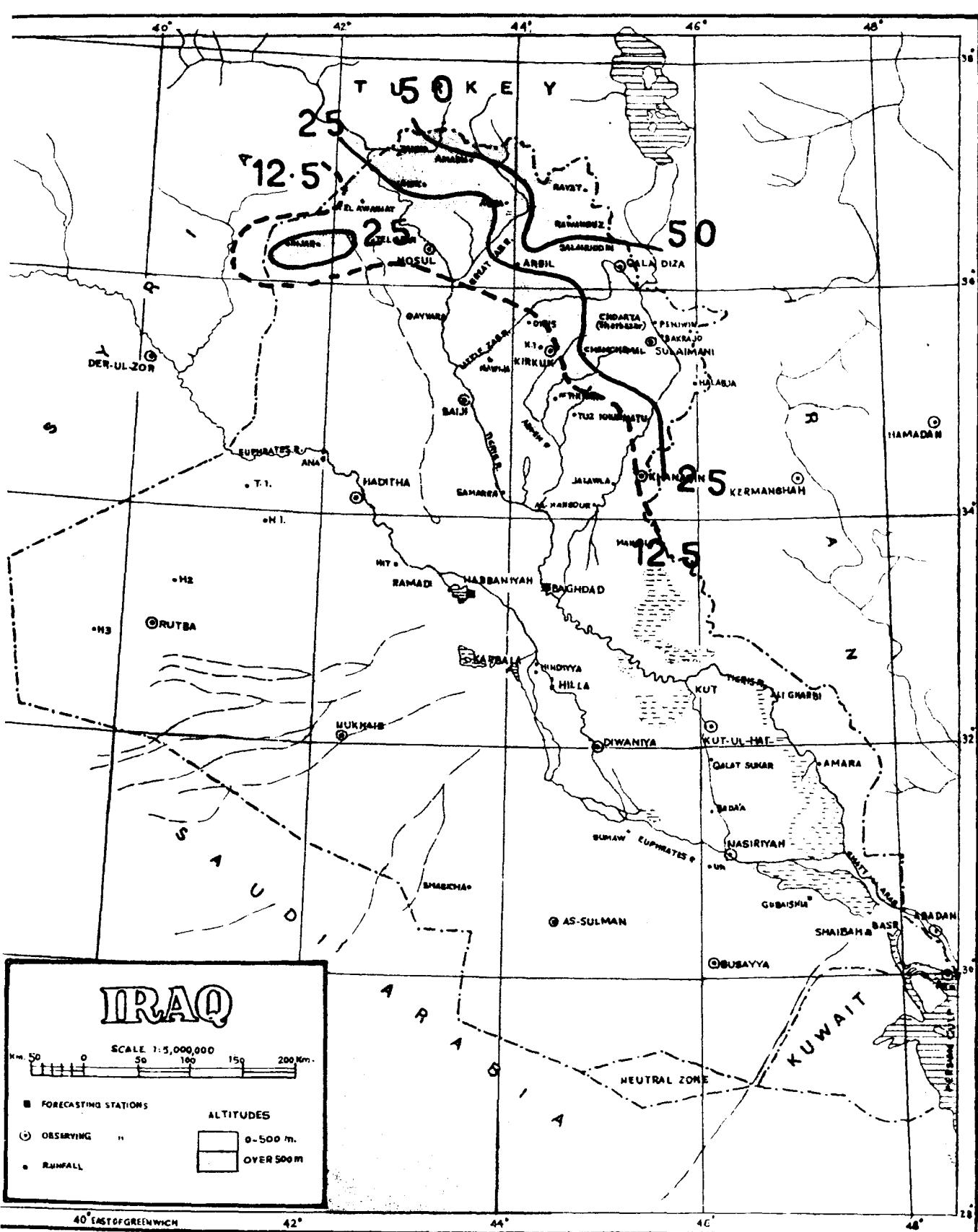
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APRIL



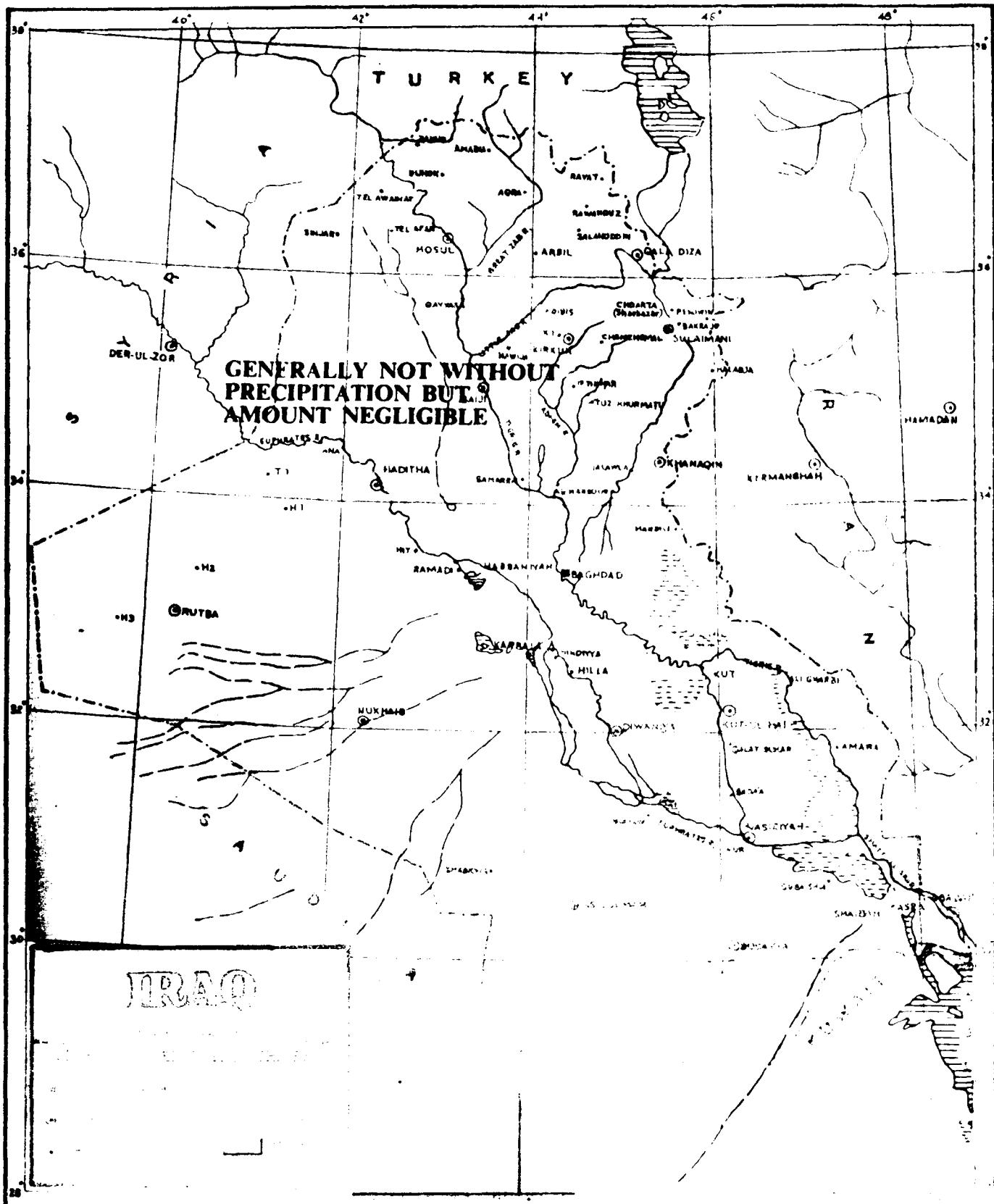
P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

MAY



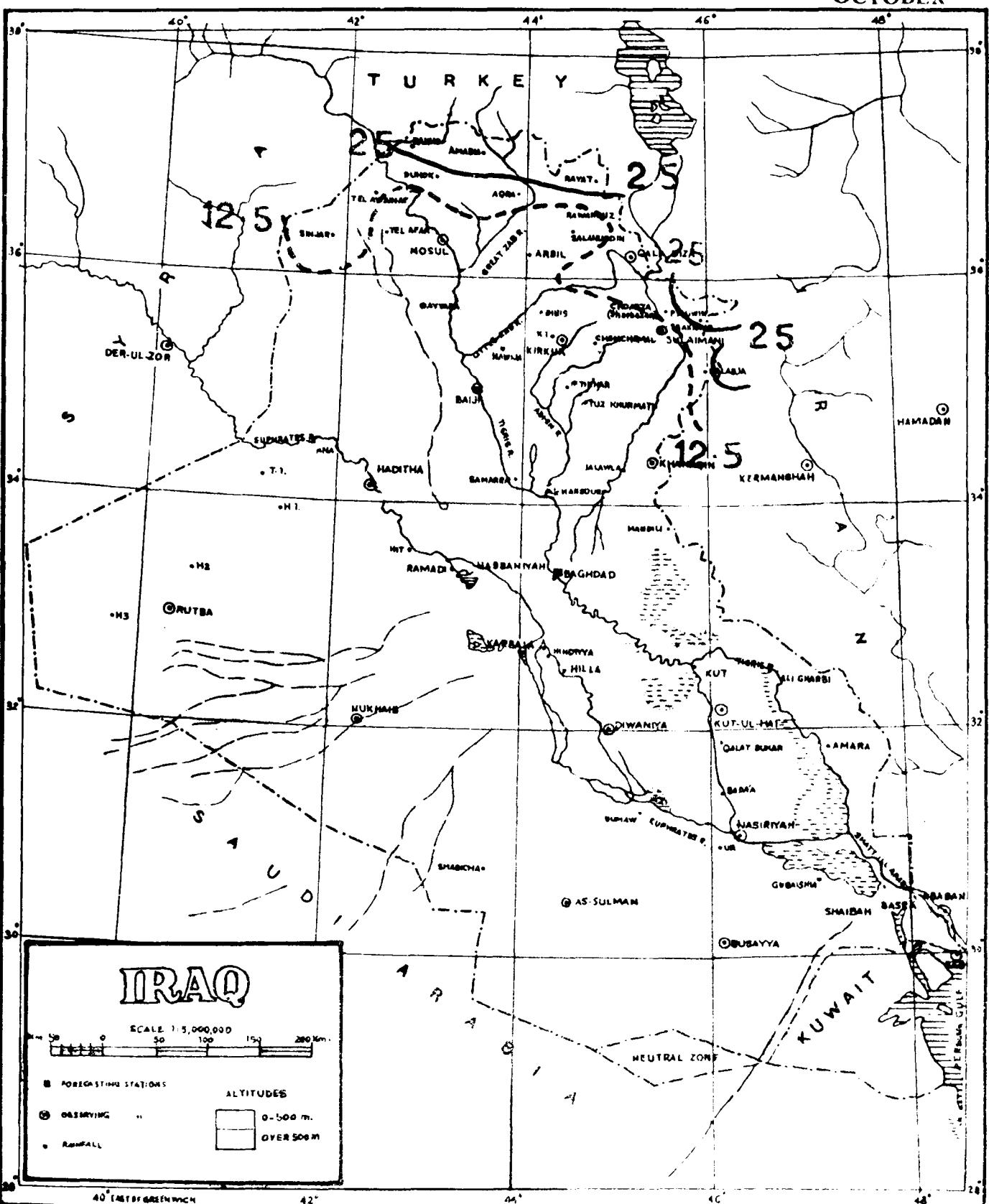
P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

JUNE
JULY
AUGUST
SEPTEMBER



P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

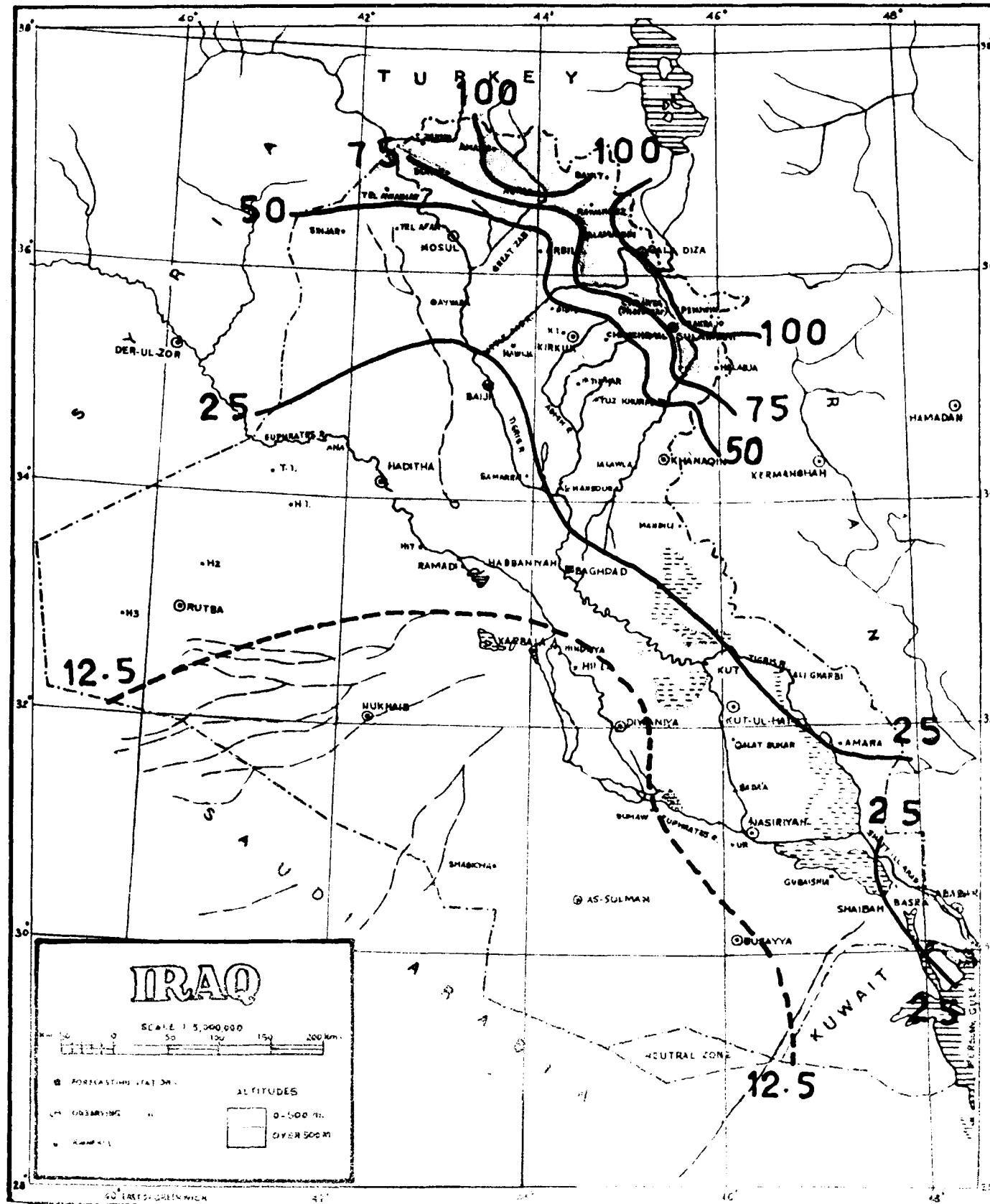
OCTOBER



PRECIPITATION
Mean Monthly Amount of Precipitation

16

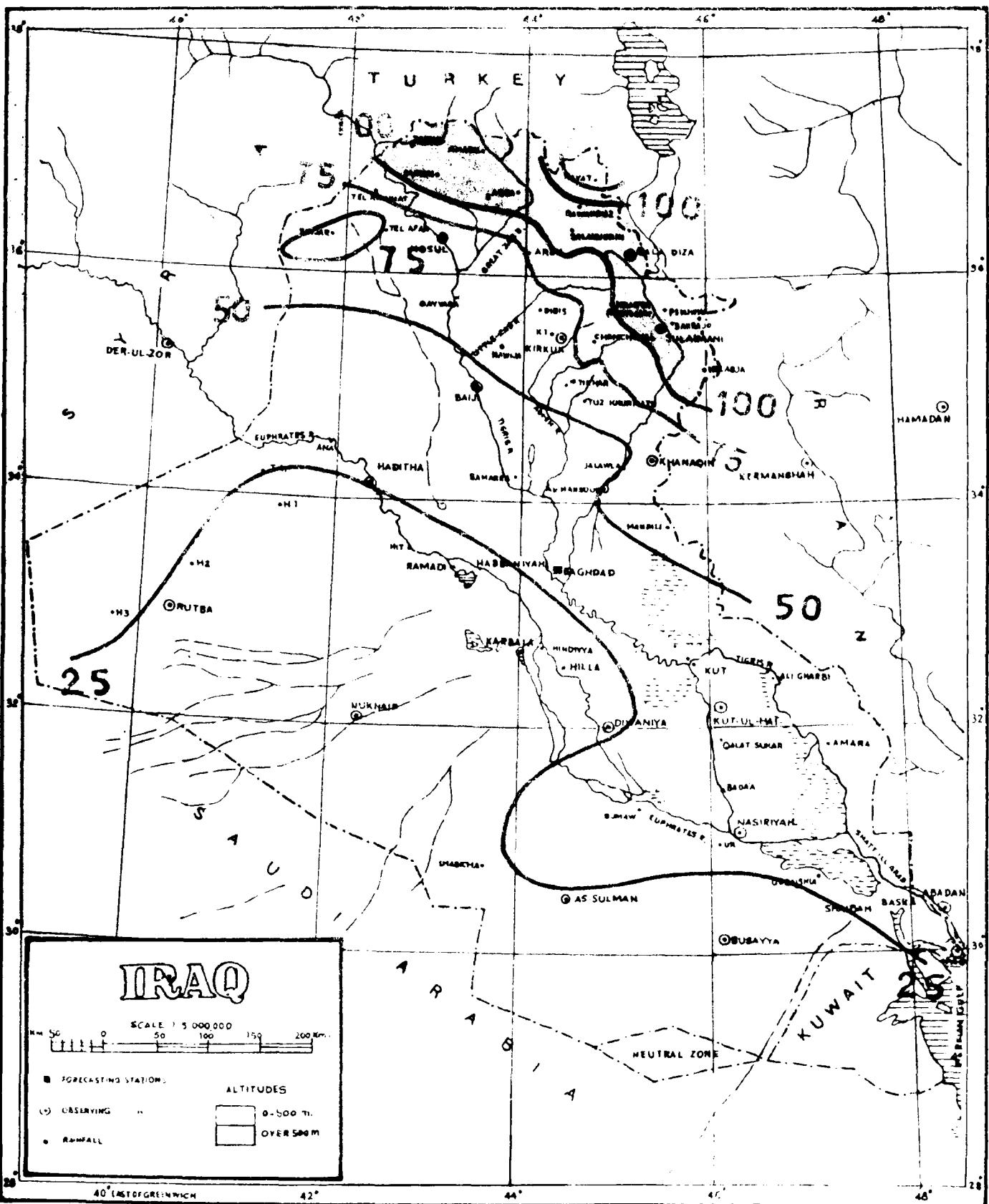
NOVEMBER



P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

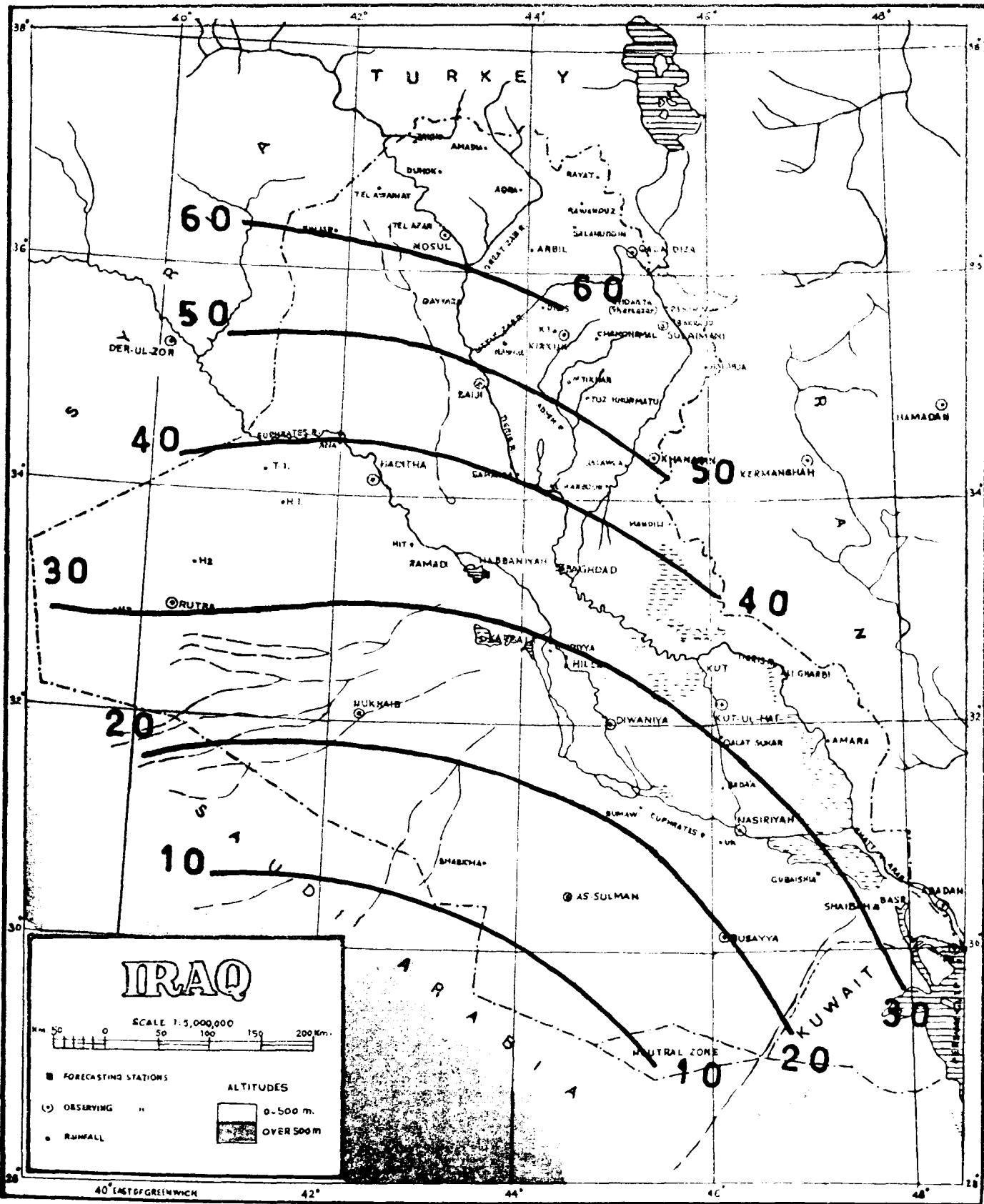
17

DECEMBER



P R E C I P I T A T I O N
 Mean Annual Number of Days with Rain
 Period of records see page 2/3

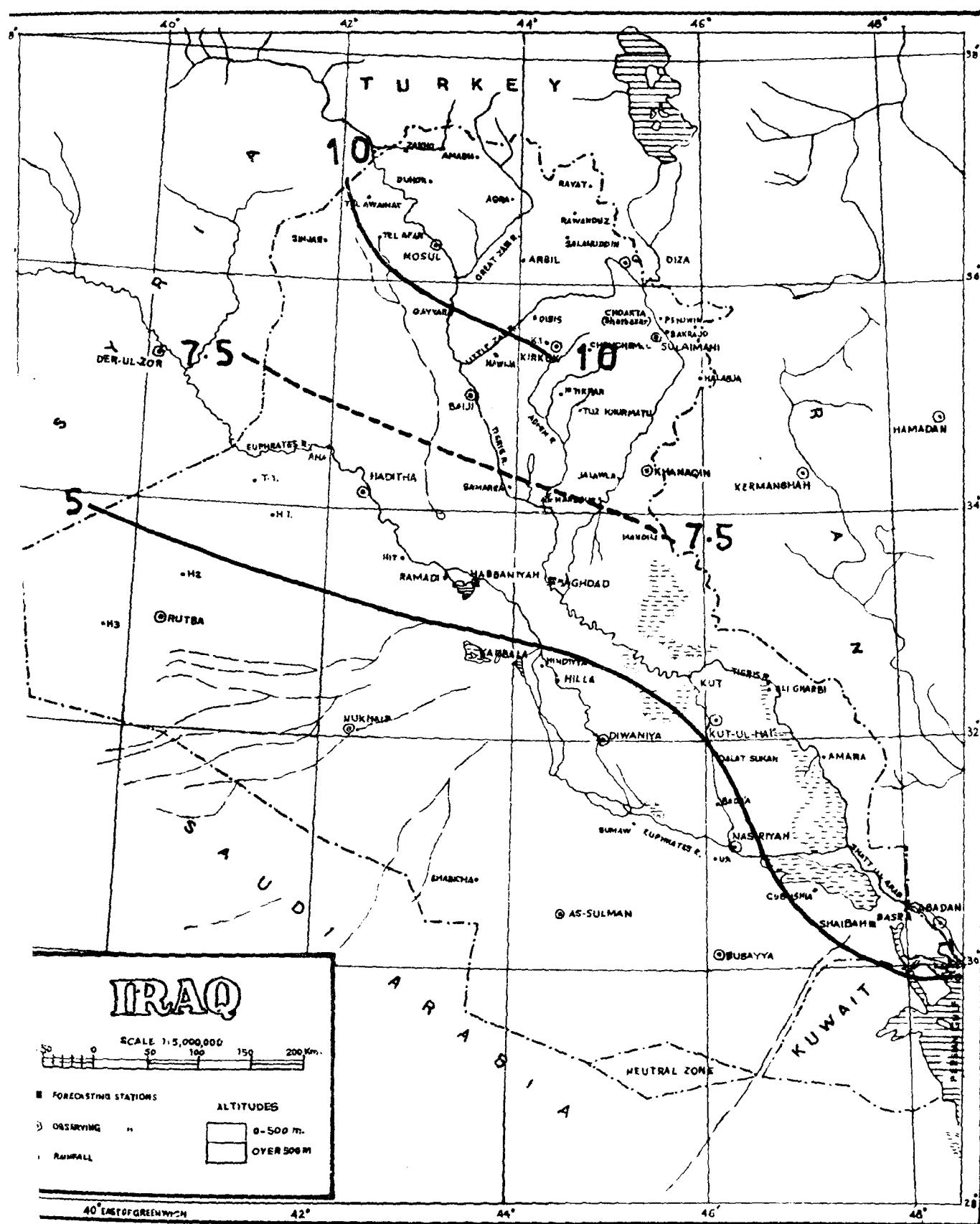
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P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

19

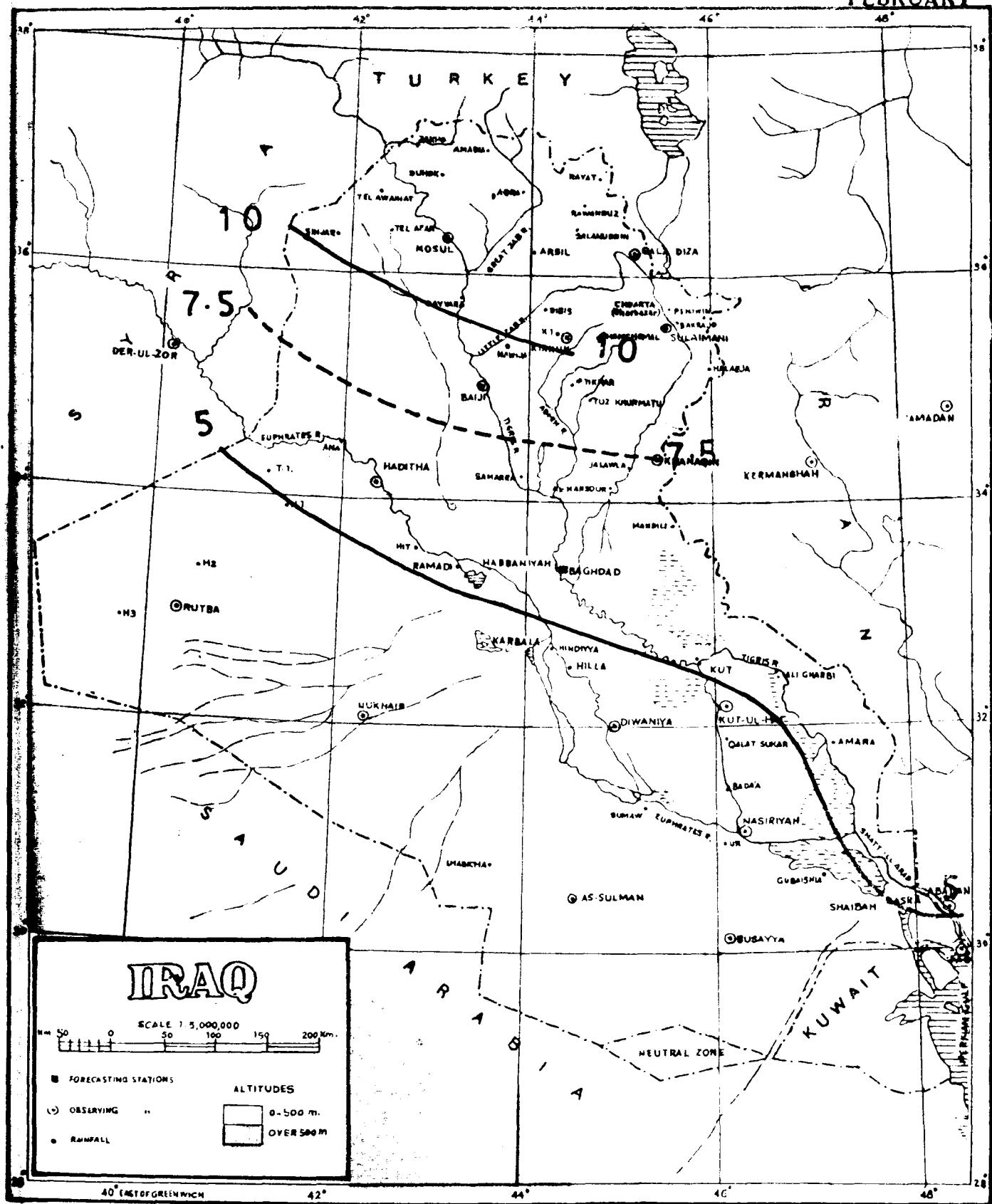
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P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

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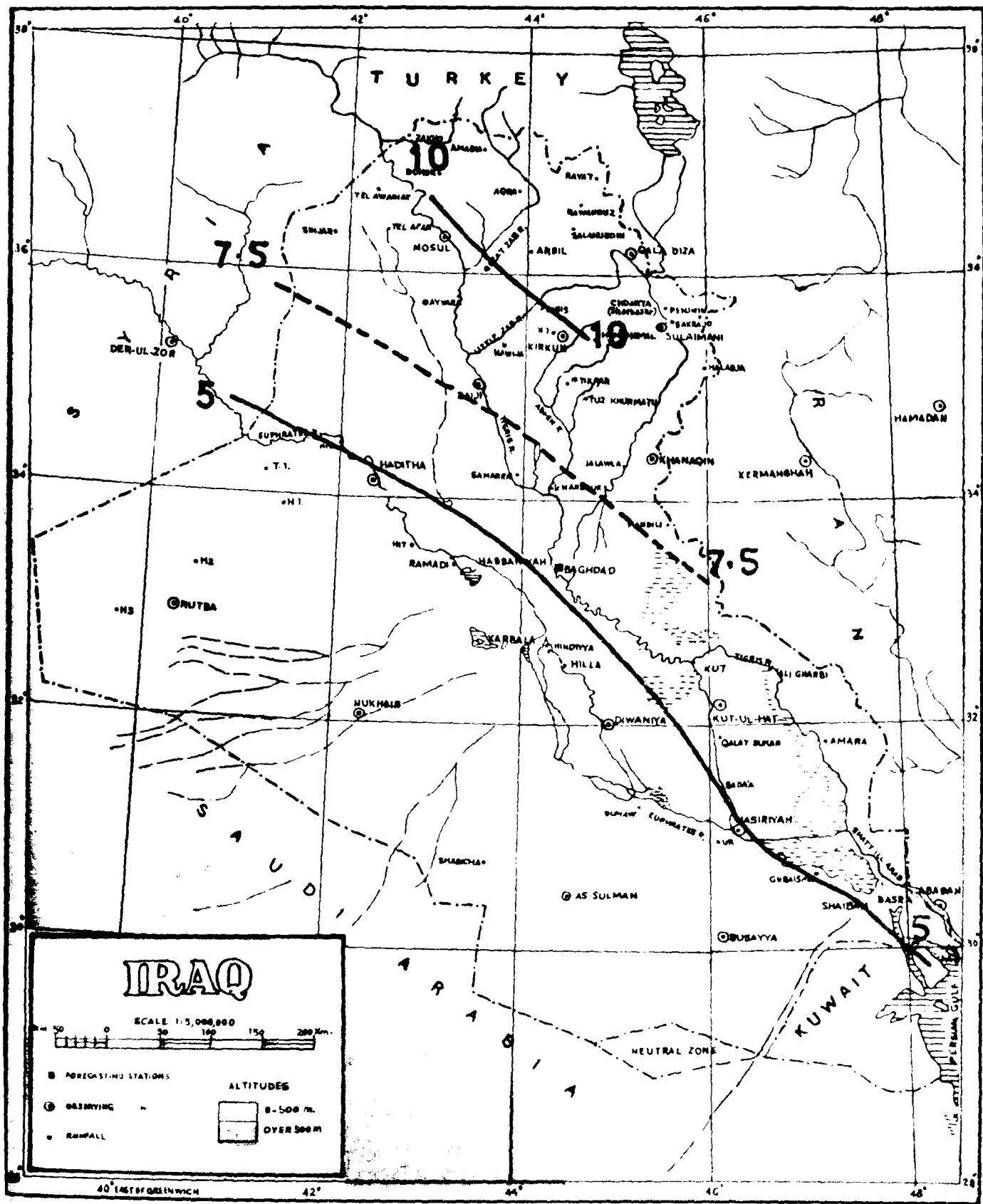
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P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

21

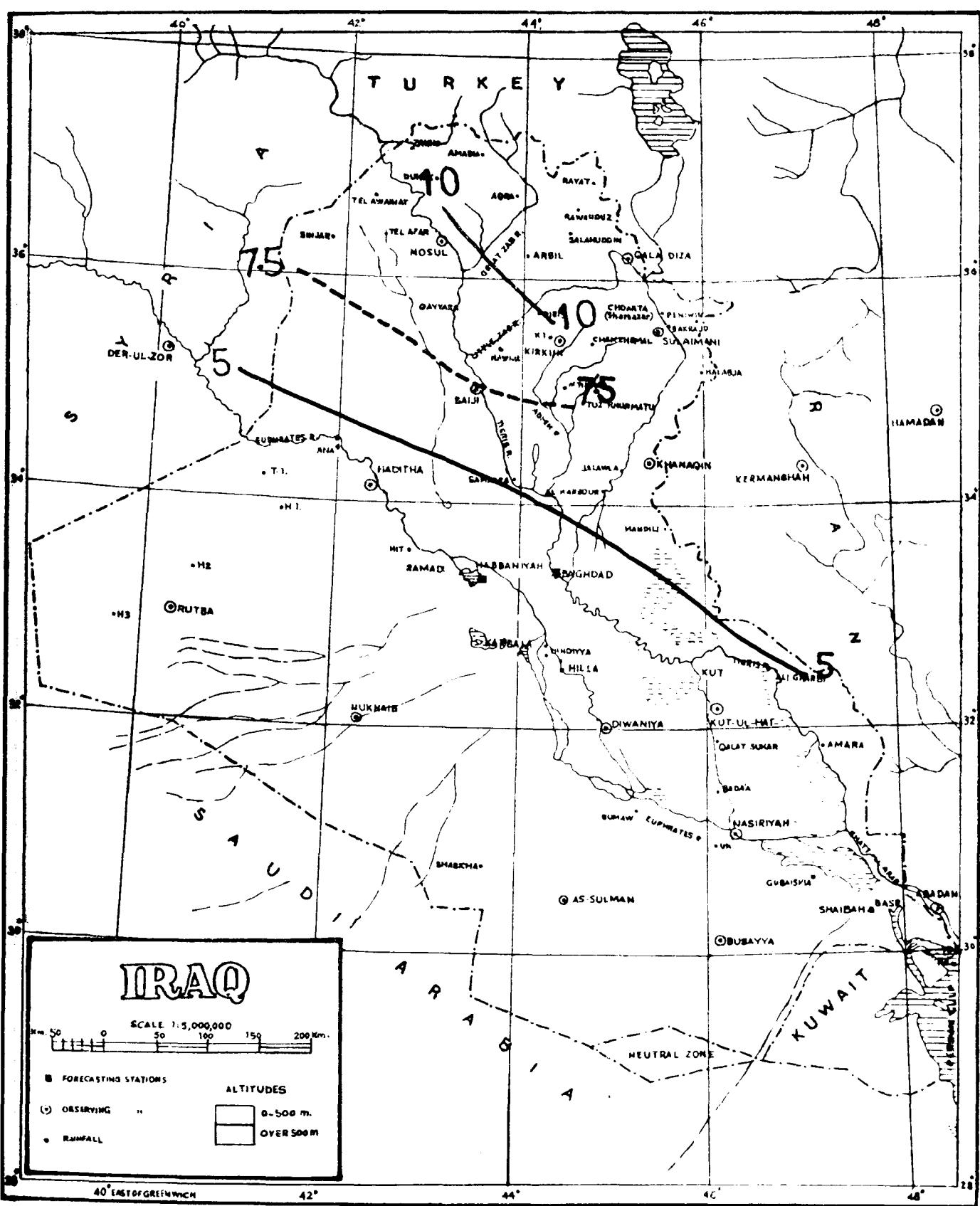
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P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

22

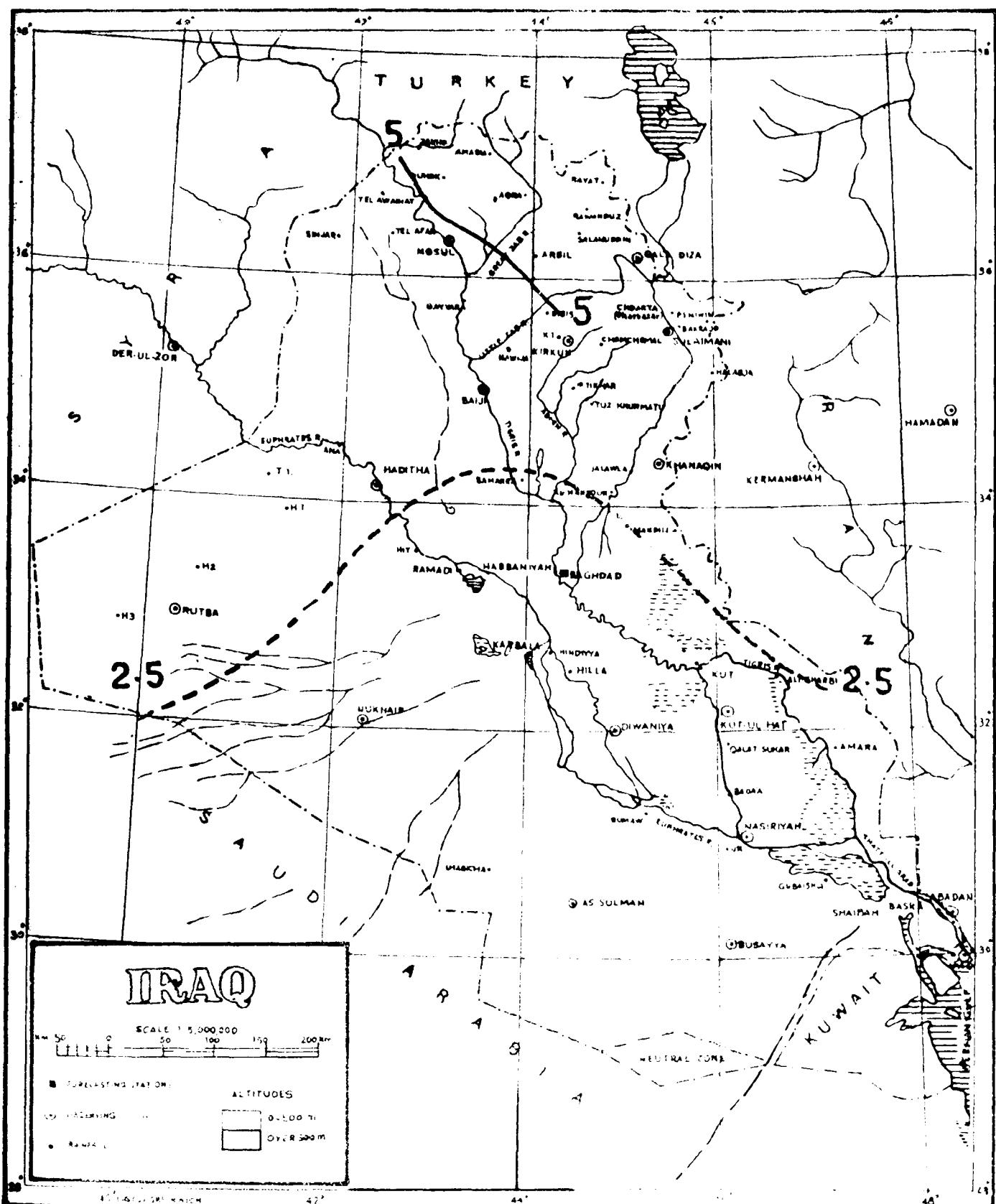
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P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

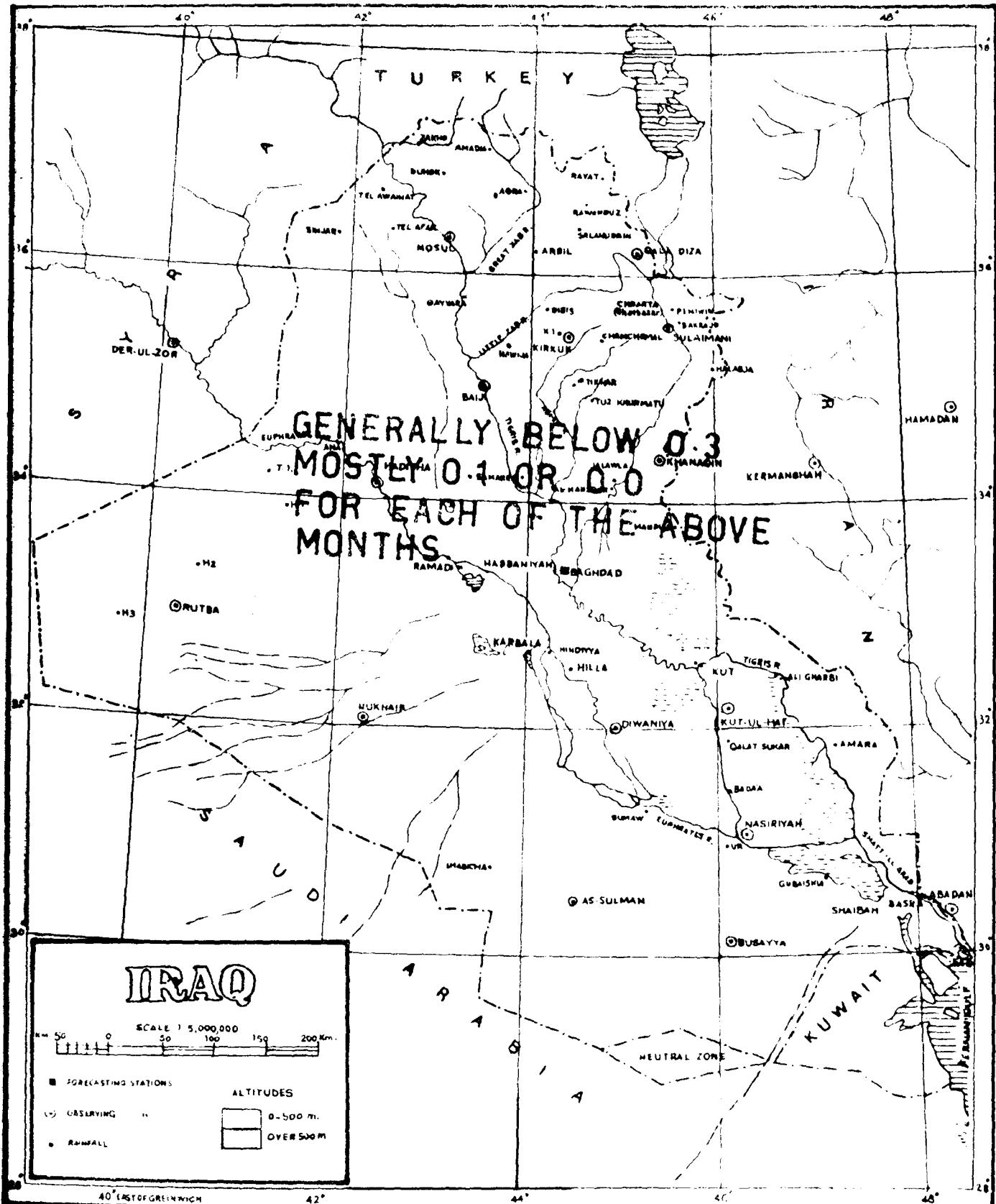
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MAY



P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

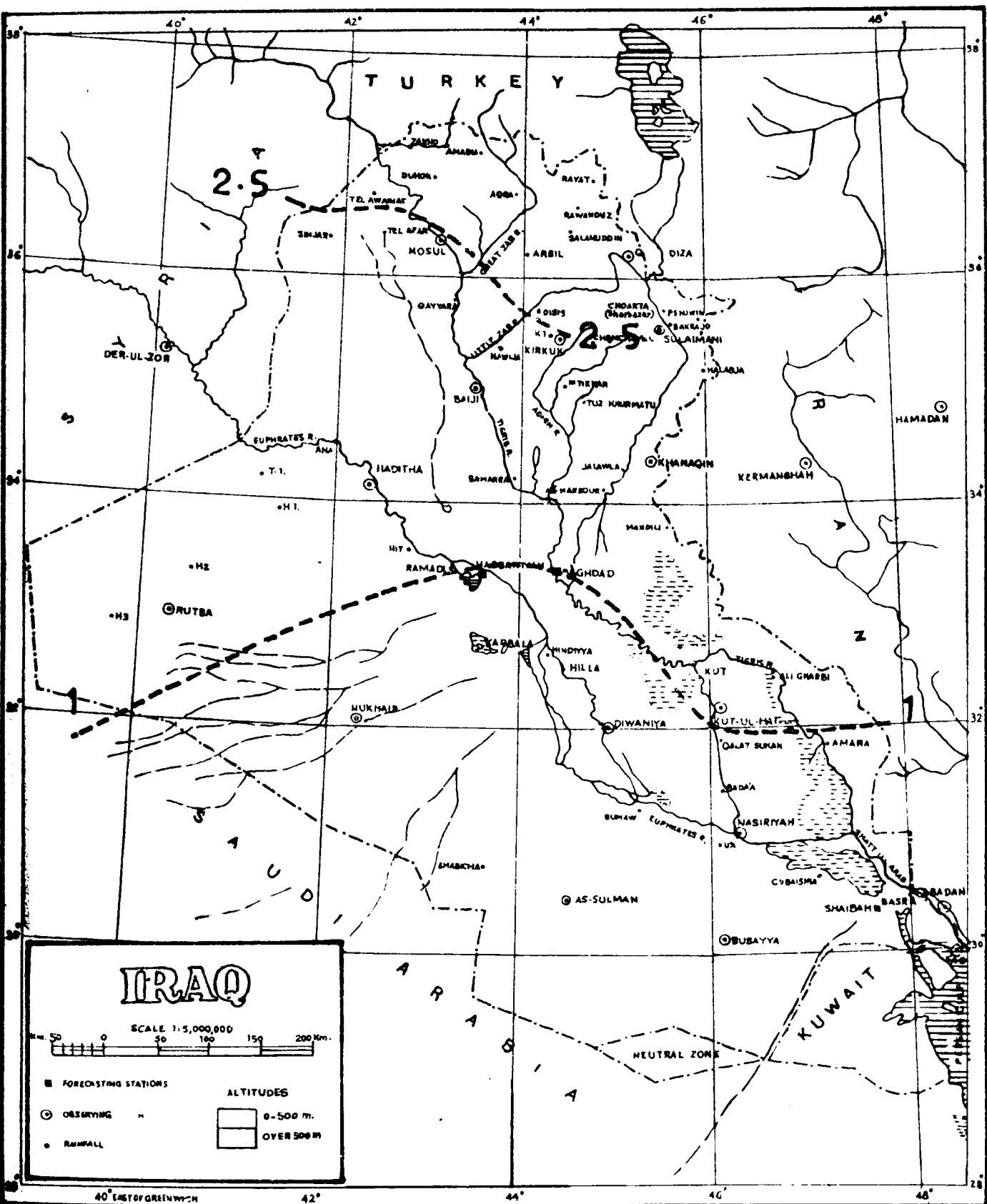
JUL.
AUG.
SEP.



P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

25

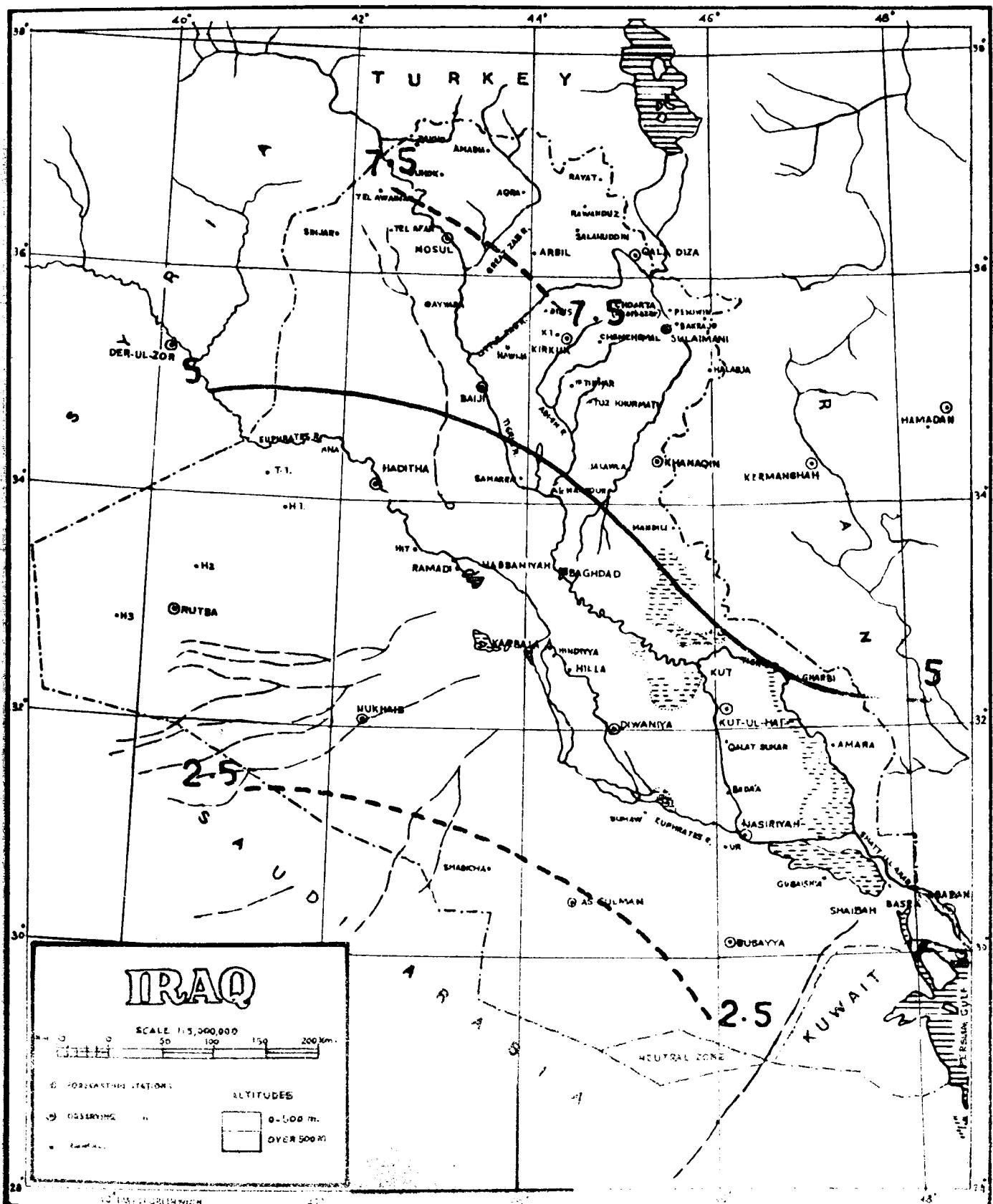
OCTOBER



P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

26

NOVEMBER



IRAQ

SCALE 1:5,000,000
0 50 100 150 200 Km.

FORECASTING STATION

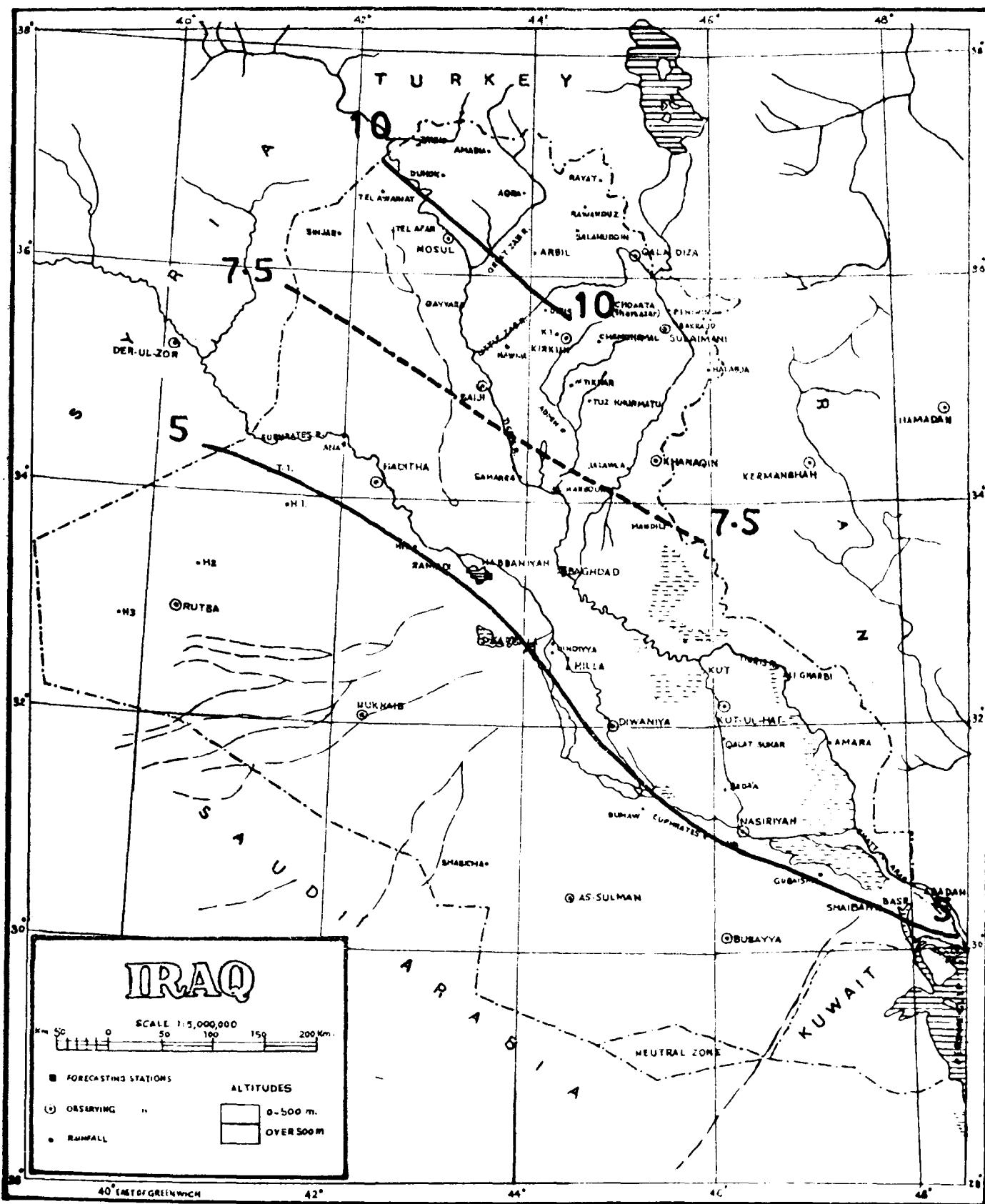
ALTITUDES



P R E C I P I T A T I O N
Mean Monthly Number of Days with Rain
Period of records see page 2/3

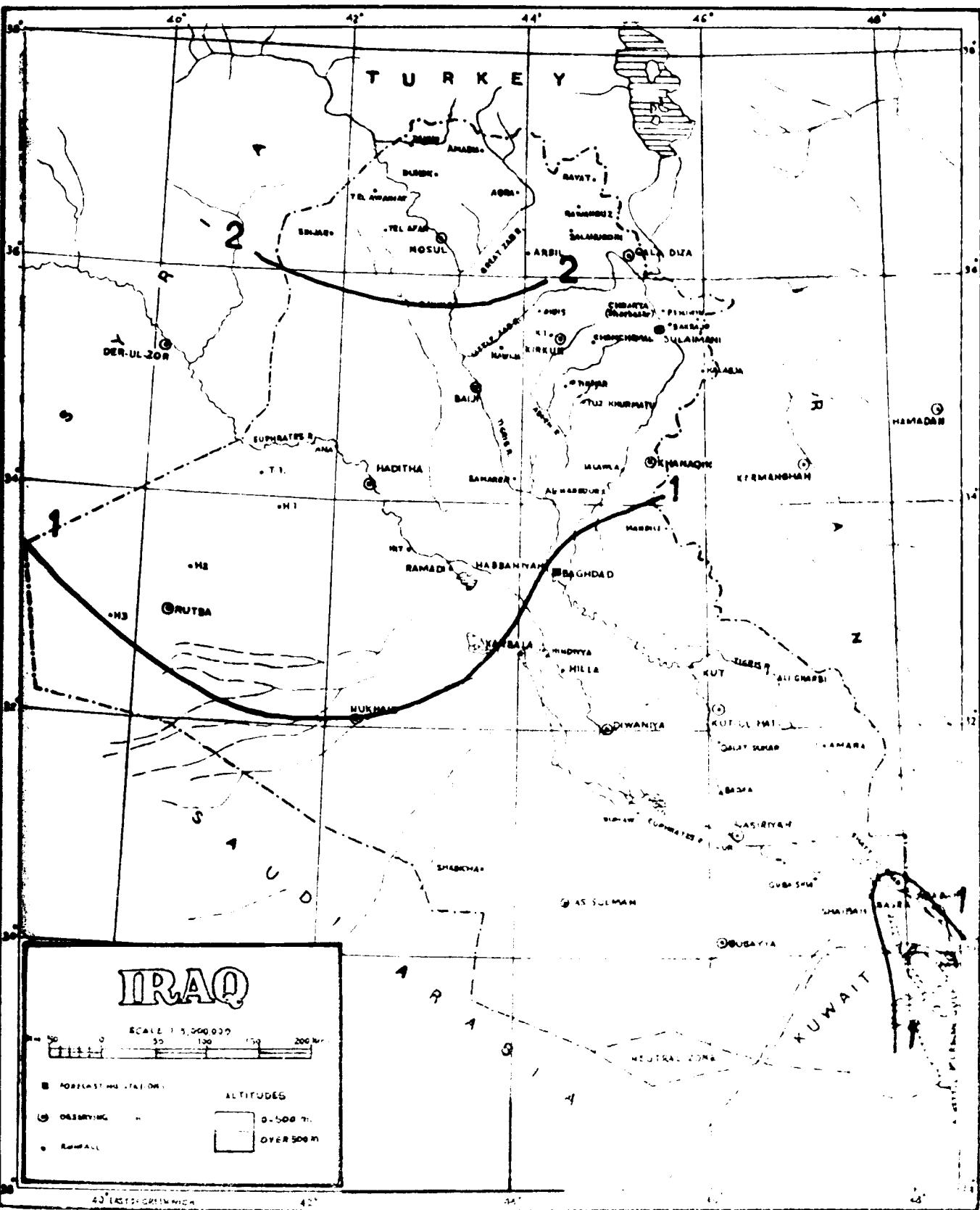
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DECEMBER



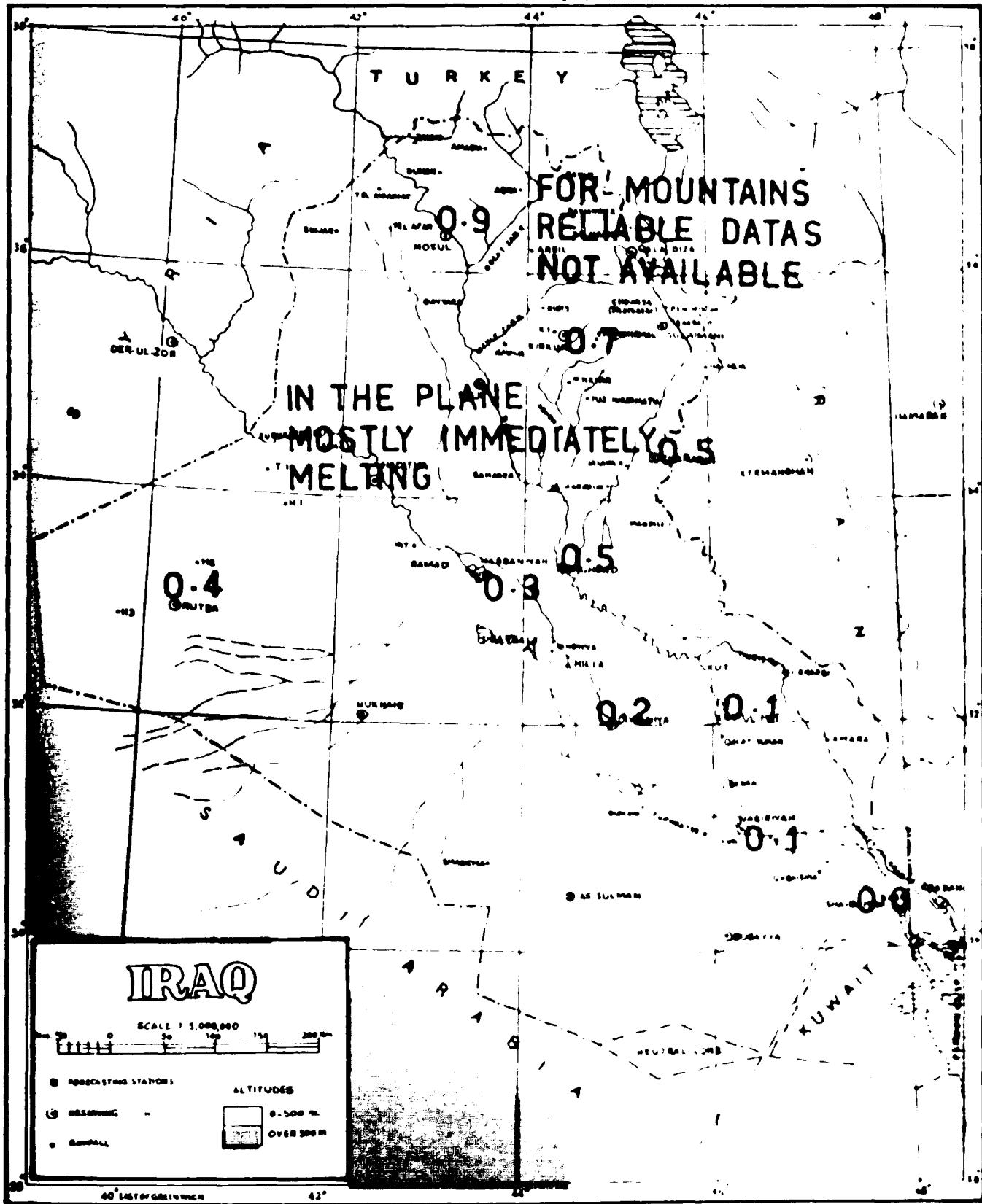
P R E C I P I T A T I O N
Mean Annual Number of Days with Hail
Period of records see page 2/3

28

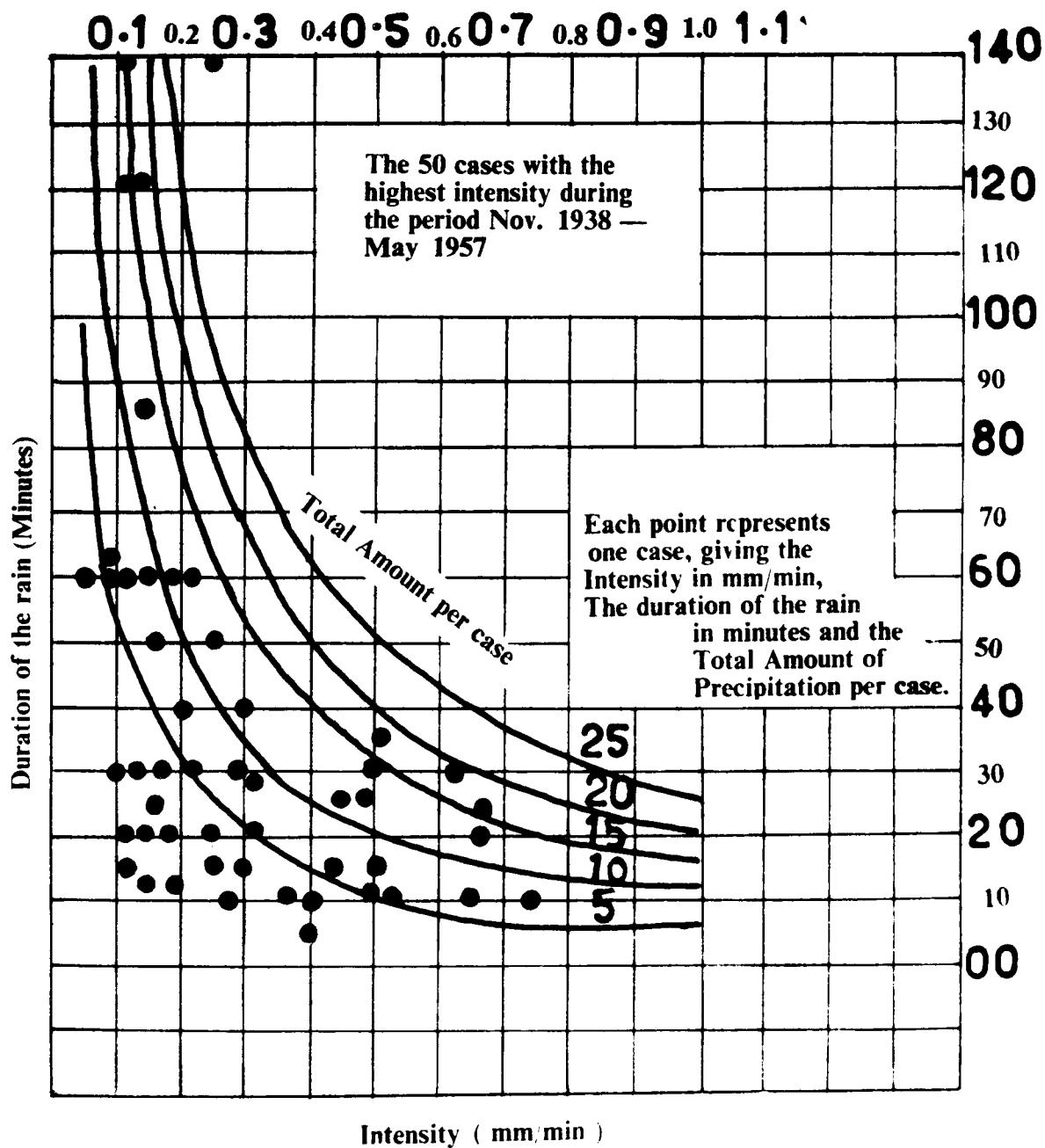


P R E C I P I T A T I O N
Mean Annual Number of Days with Snow Fall
Period of records see page 23

79

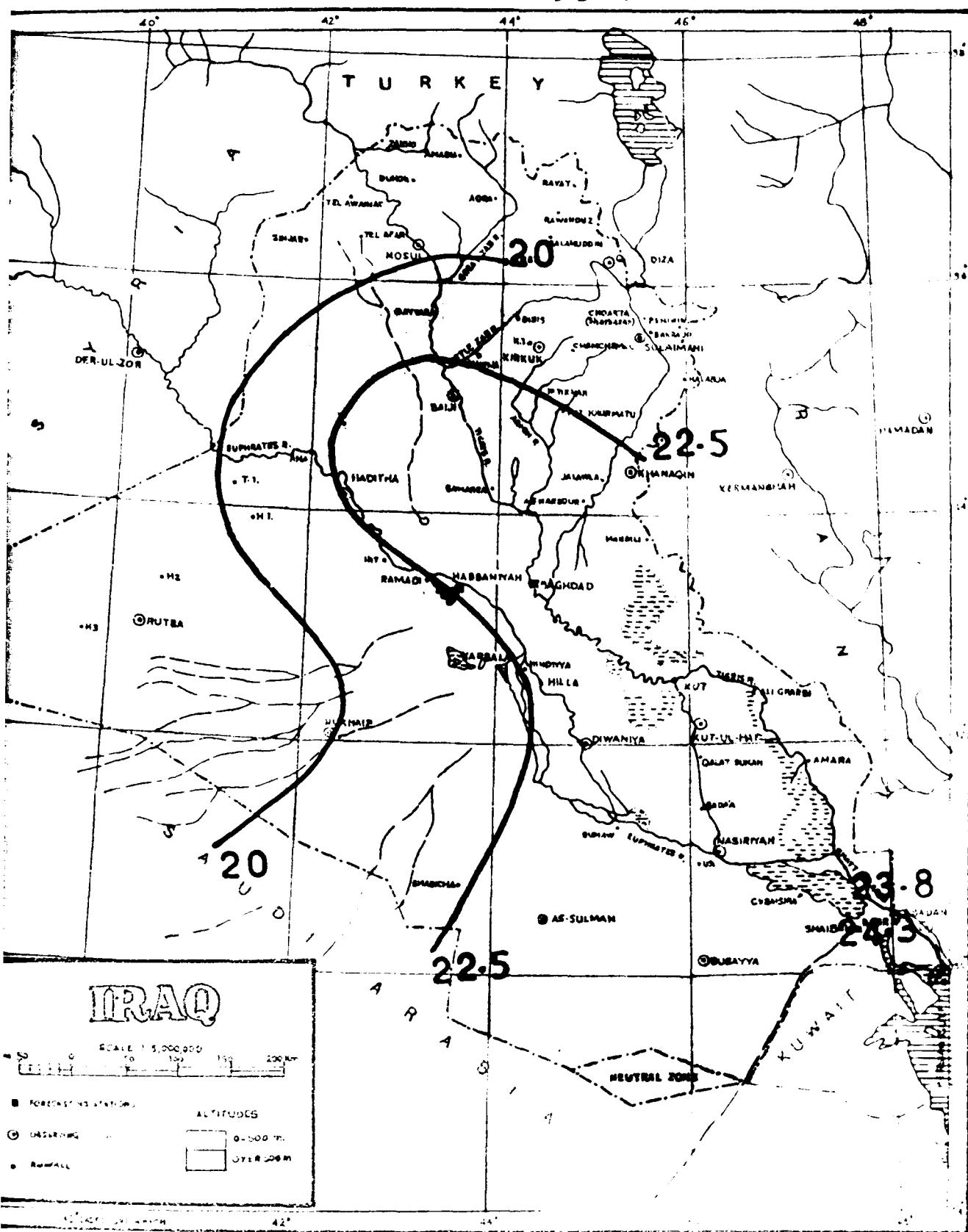


P R E C I P I T A T I O N
Intensity of Rain Fall
in Baghdad



TEMPERATURE
Mean Annual Temperature
Period of records see page 2/3

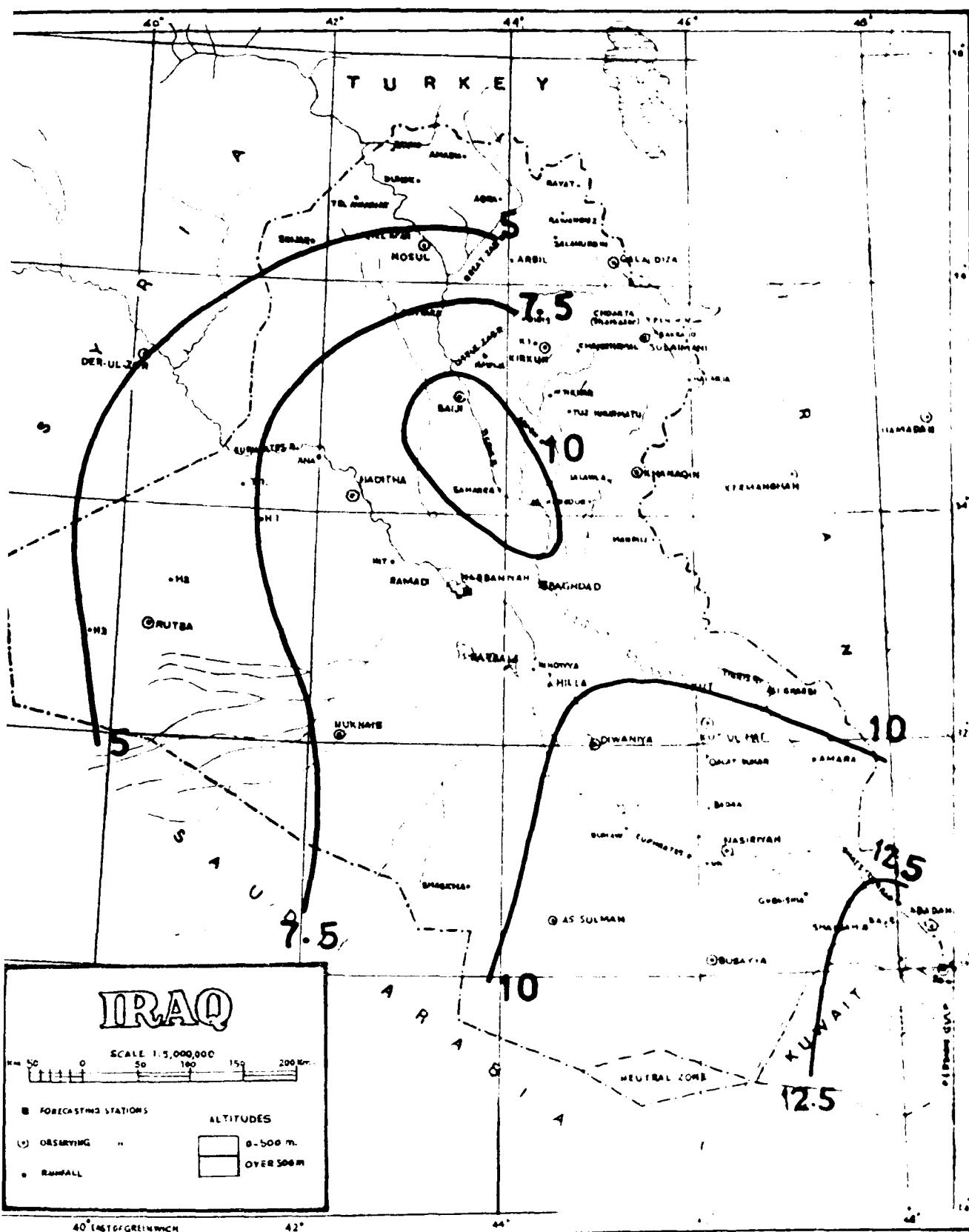
31



TEMPERATURE
Mean Monthly Temperature
Period of records see page 23

32

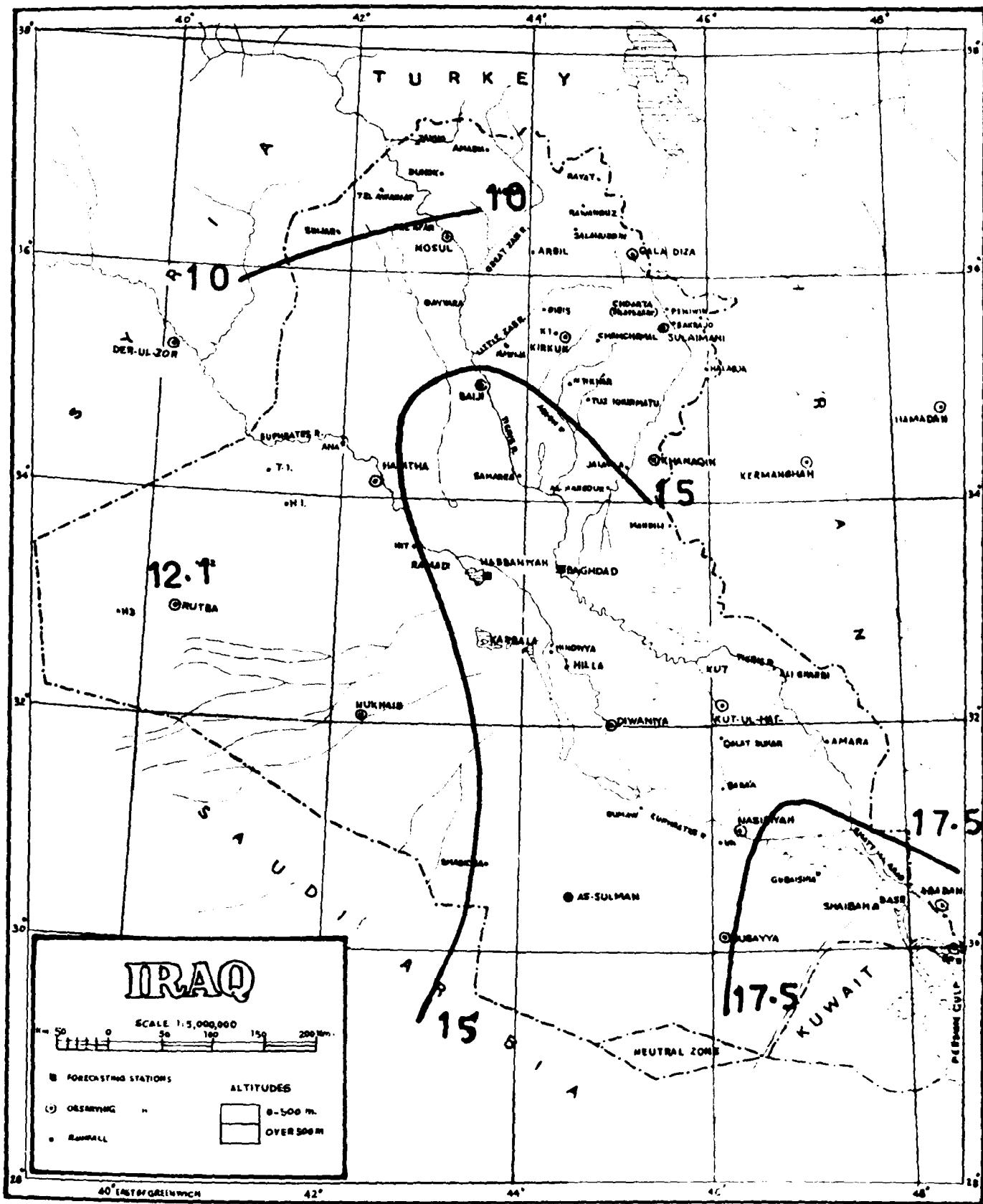
JANUARY



TEMPERATURE
Mean Monthly Temperature
Period of records see page 2,3

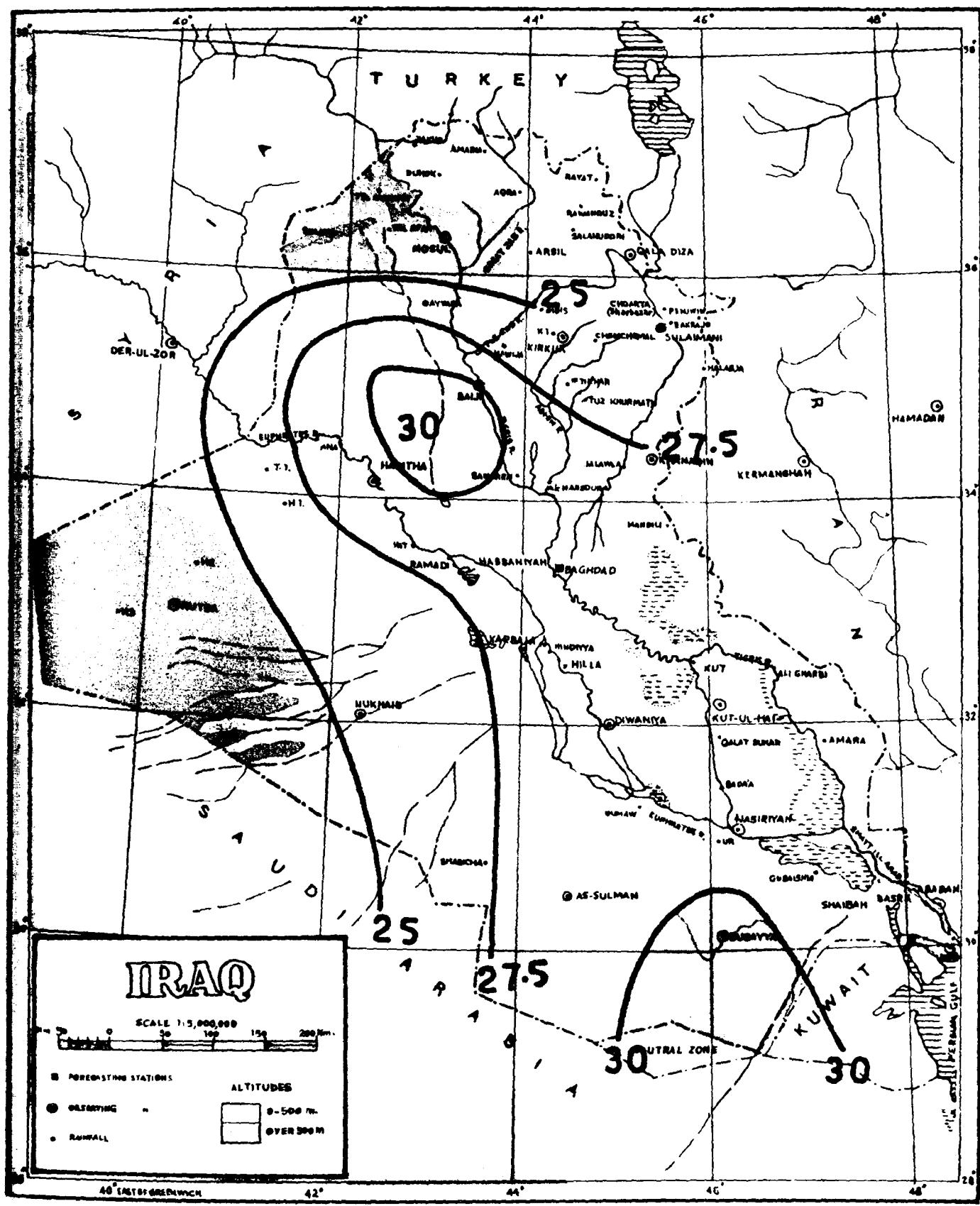
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MARCH



TEMPERATURE
Mean Monthly Temperature
 Period of records see page 2/3

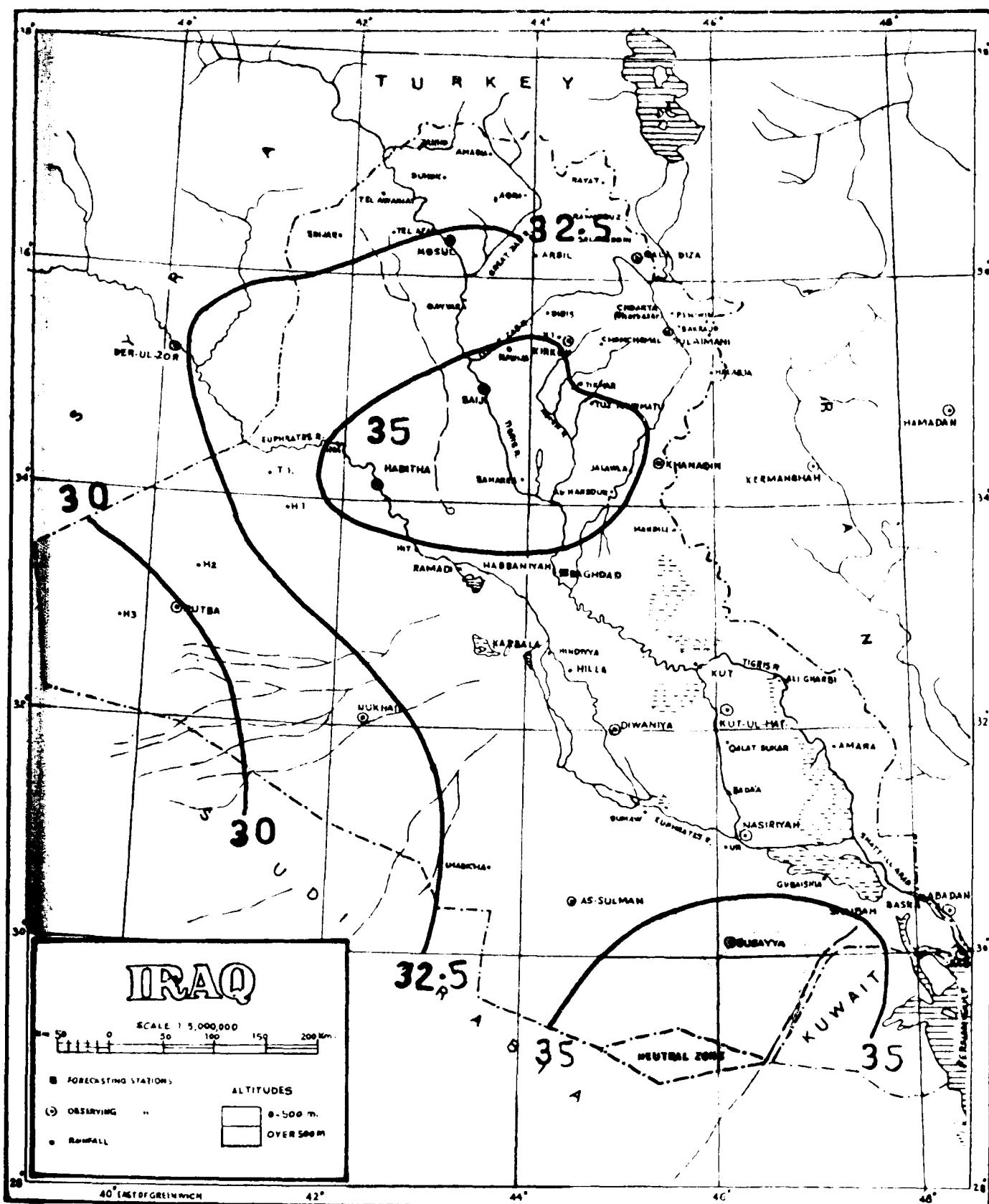
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 MAY



TEMPERATURE
Mean Monthly Temperature
Period of records see page 2/3

35

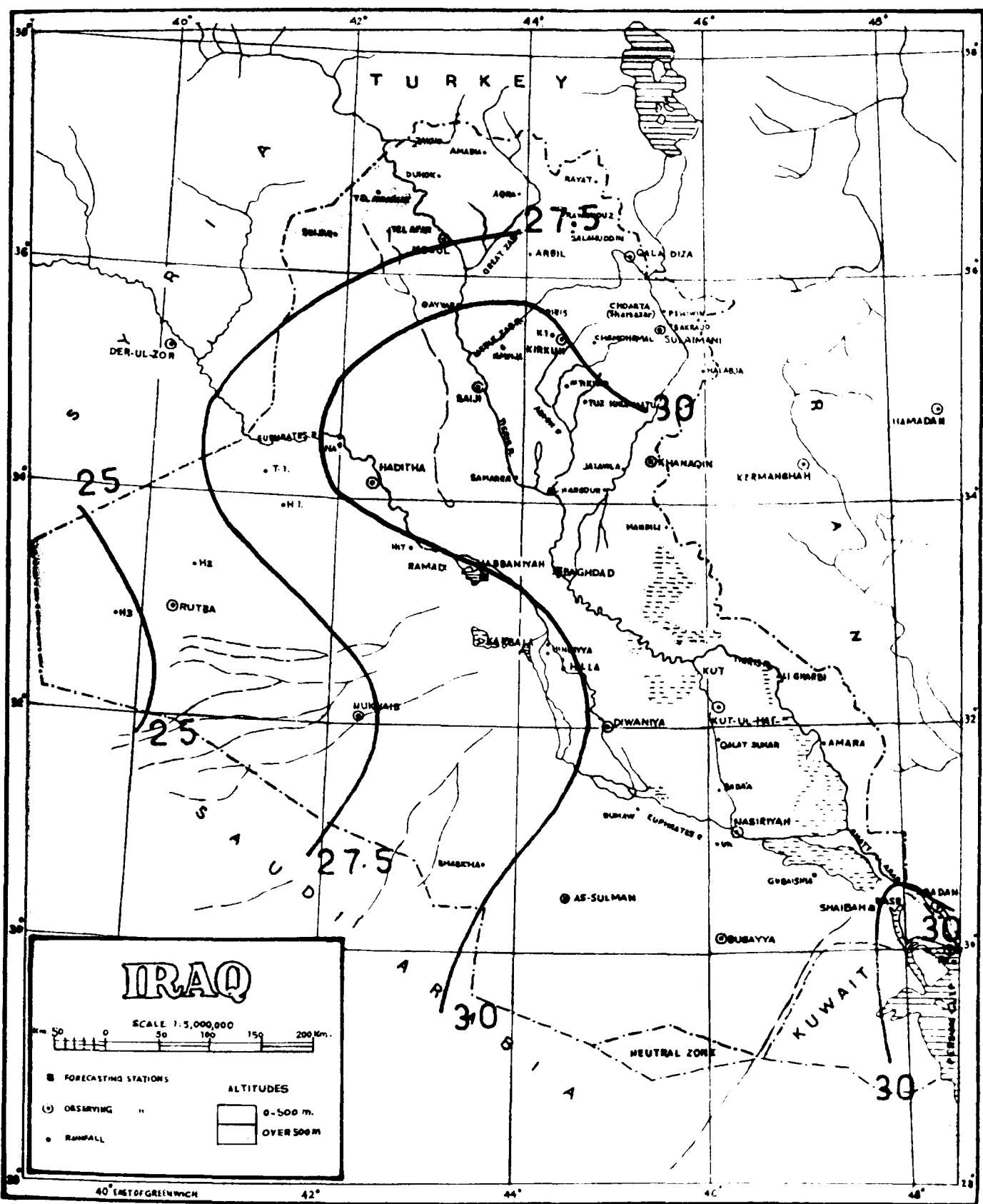
JULY



TEMPERATURE
Mean Monthly Temperature
period of records see page 23

36

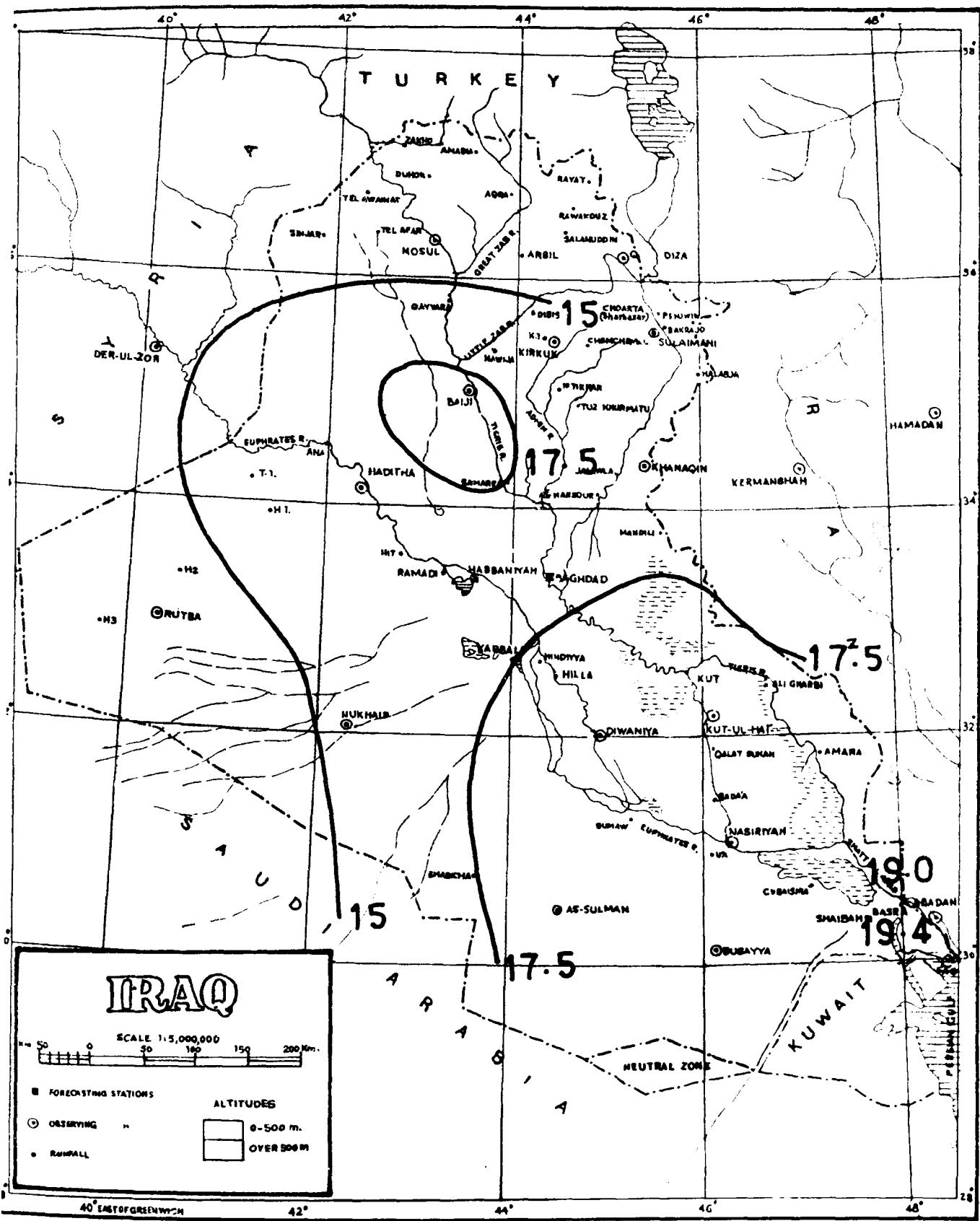
SEPTEMBER



TEMPERATURE
Mean Monthly Temperature
period of records see page 2-3

37

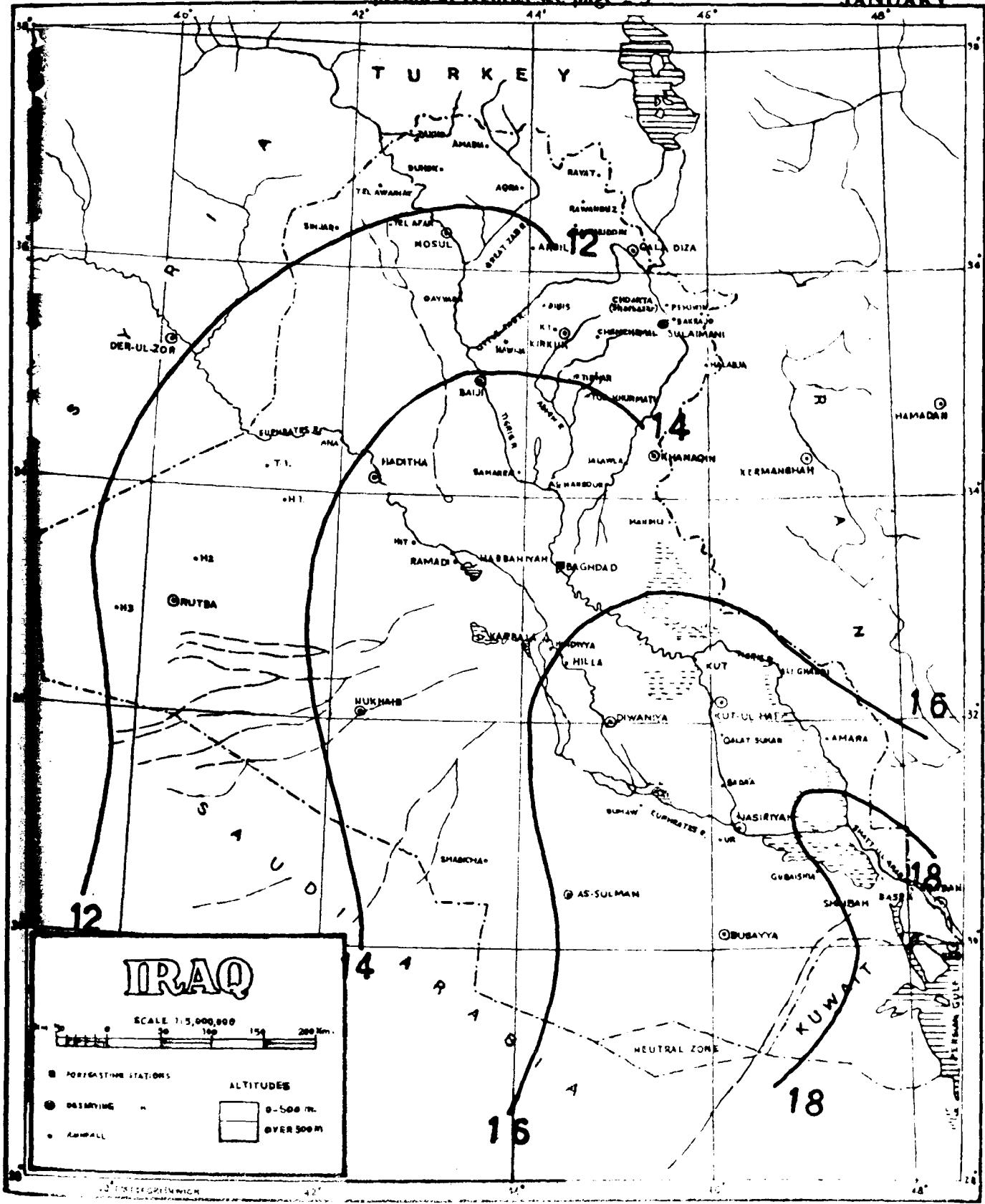
NOVEMBER



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 23

38

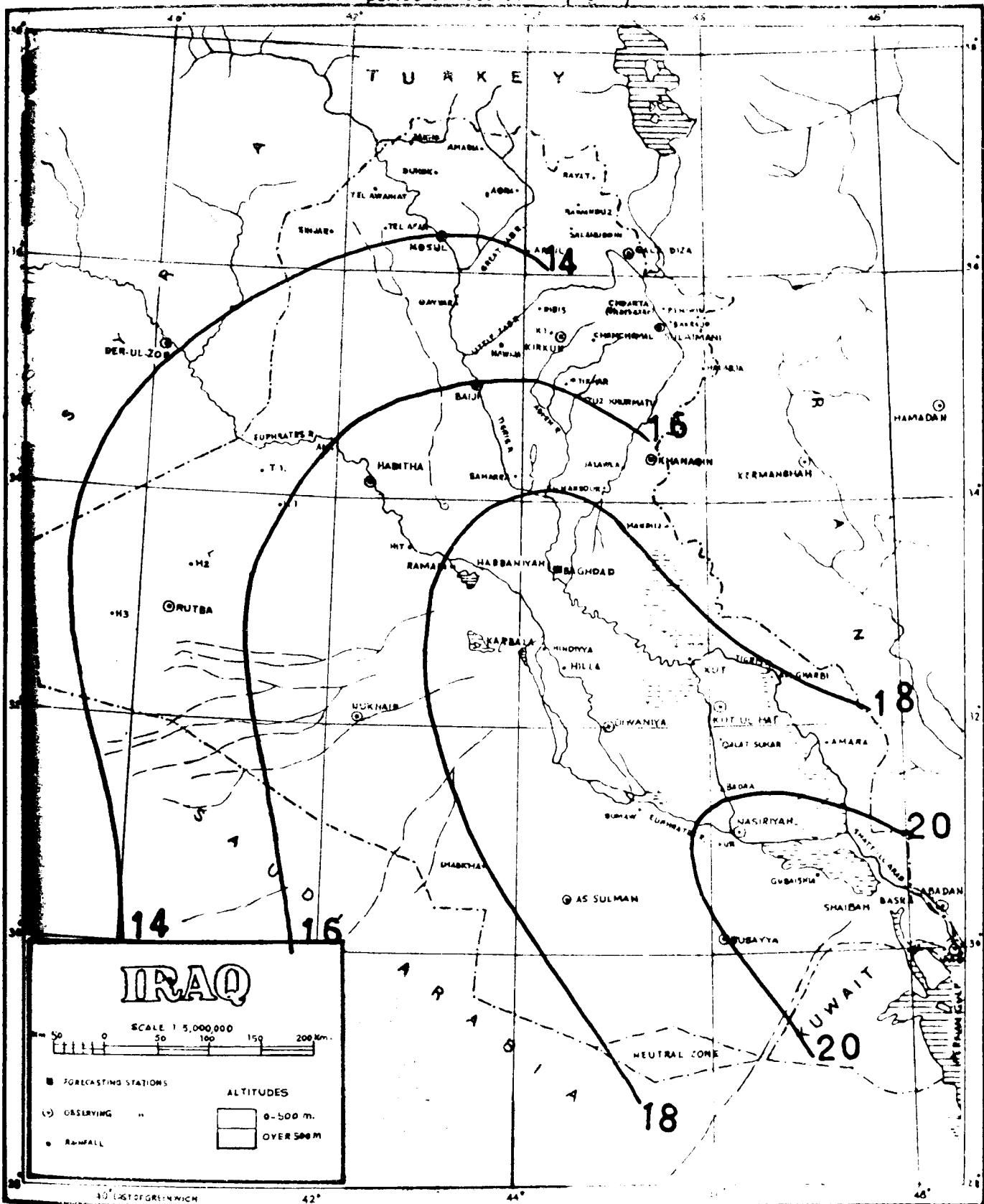
JANUARY



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2/3

39

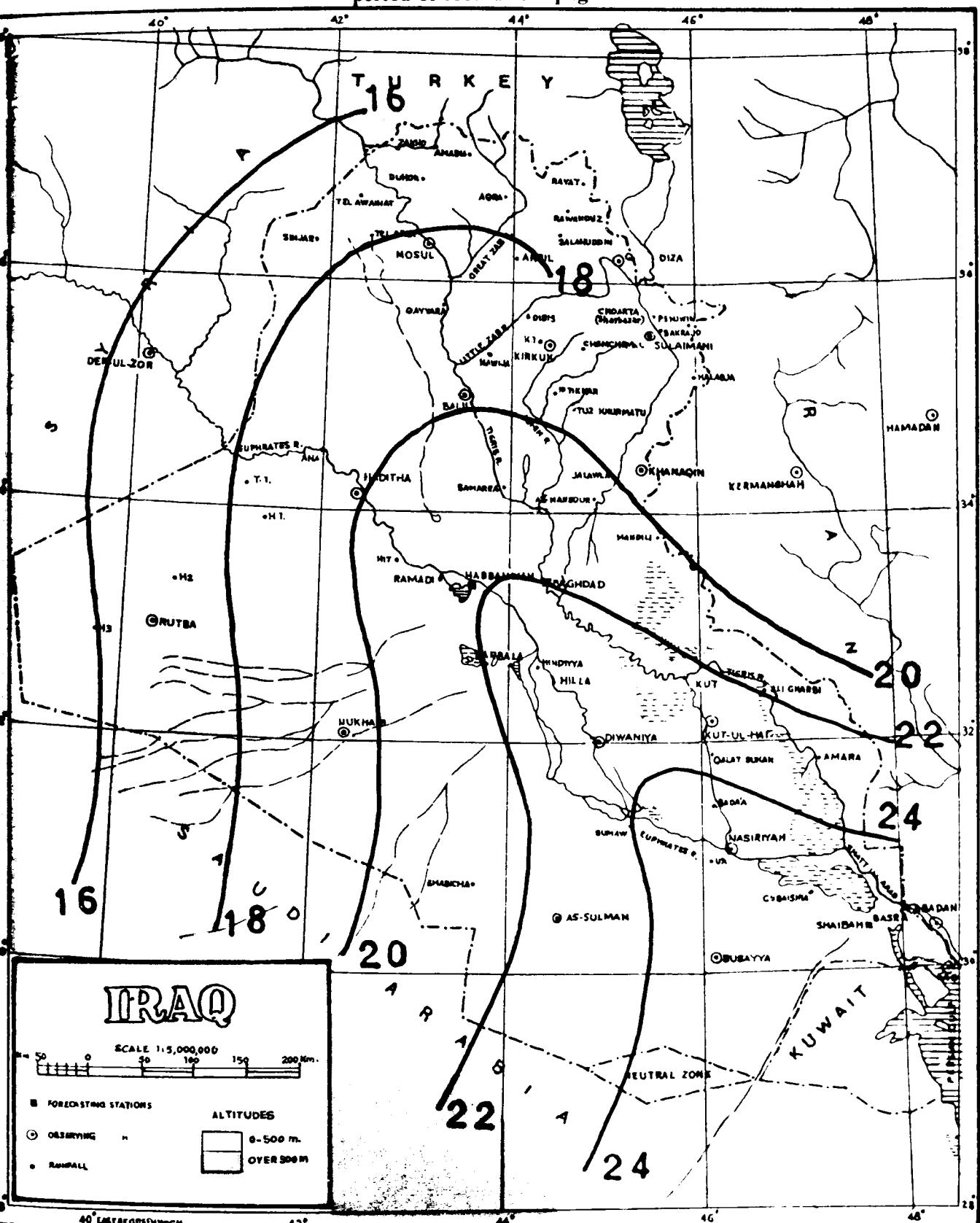
FEBRUARY



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2/3

40

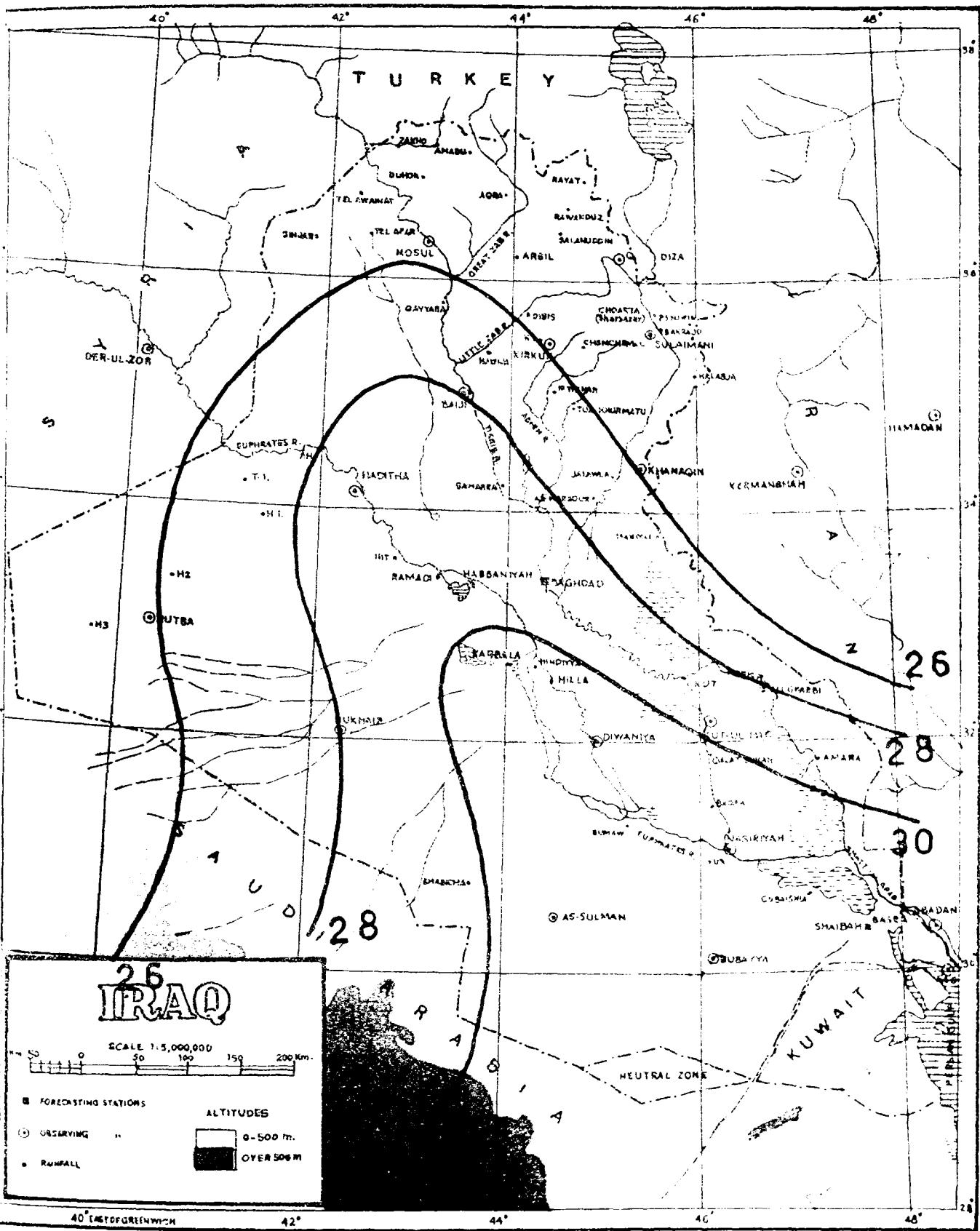
MARCH



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 23

41

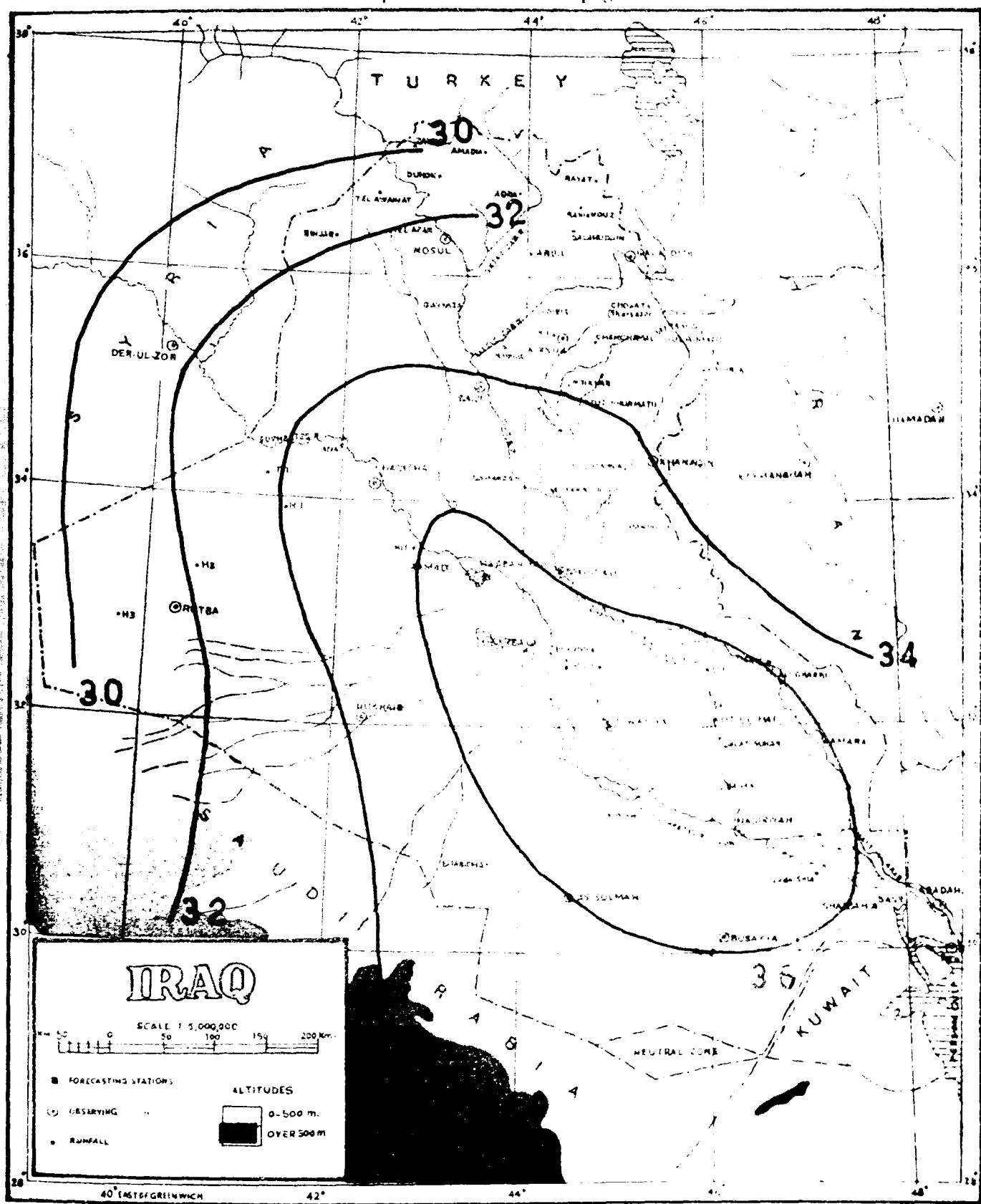
APRIL



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 23

42

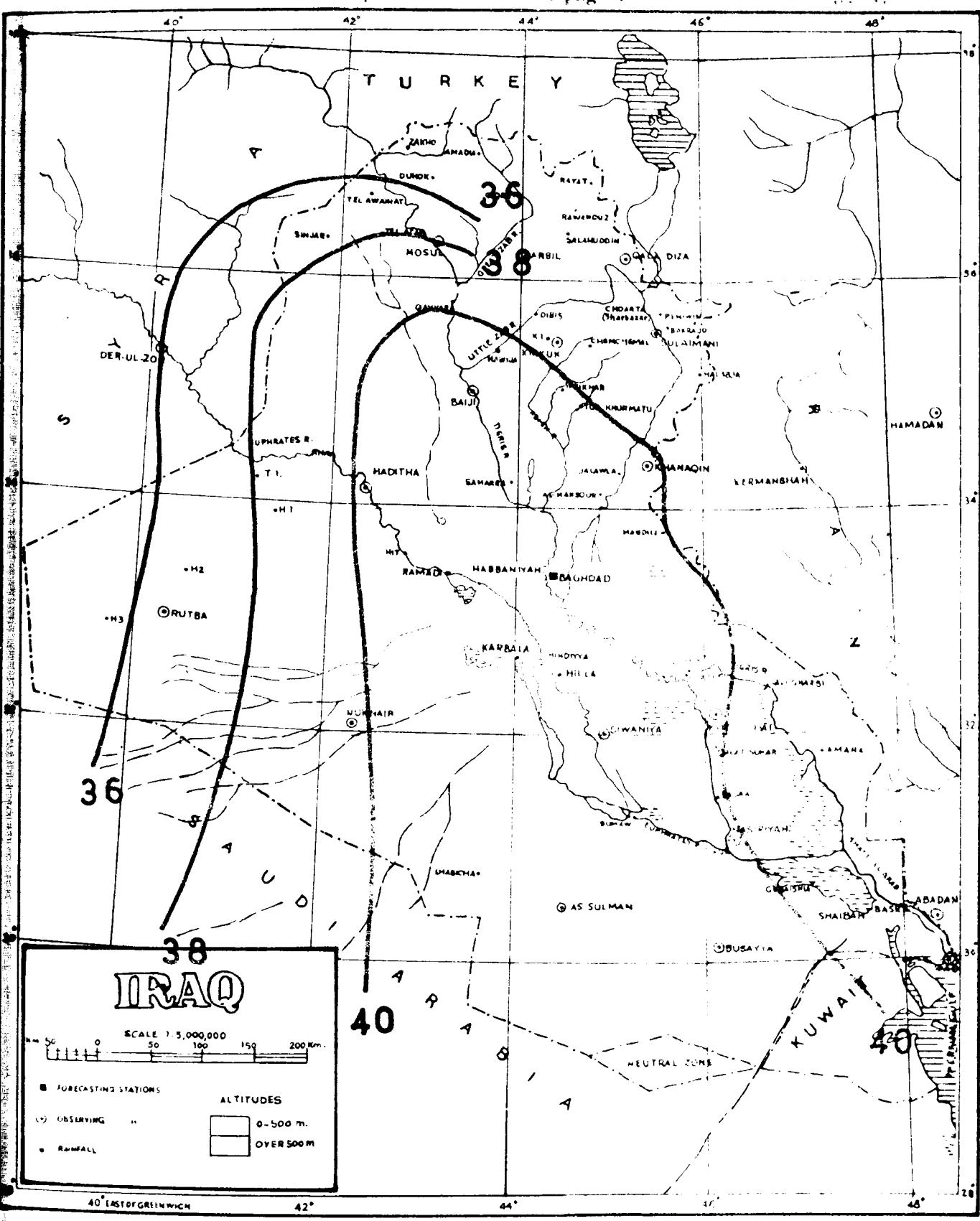
MAY



TEMPERATURE
Mean Monthly Maximum
period of records see page 2

43

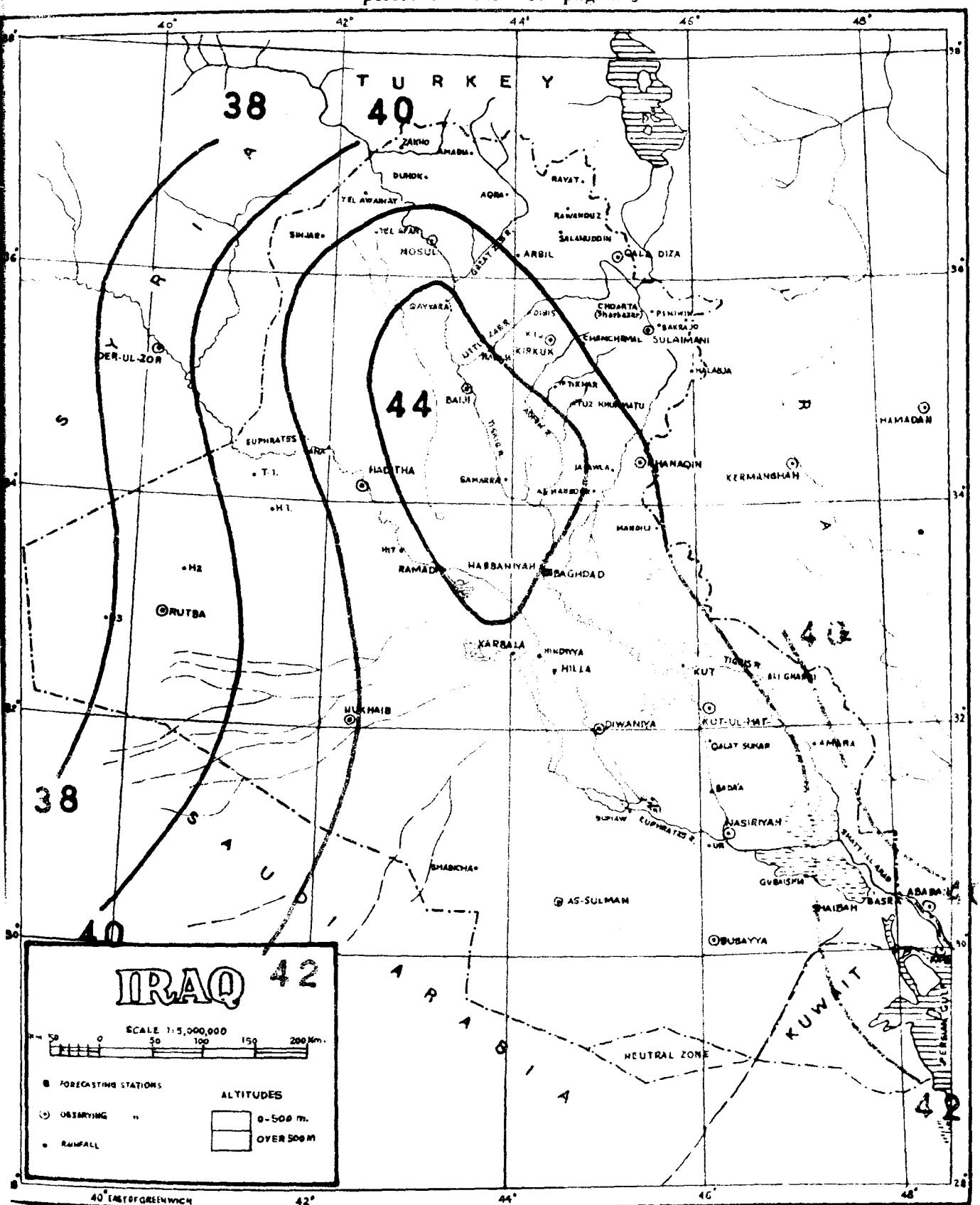
JULY



TEMPERATURE
Mean Monthly Maximum (C)
period of records see page 23

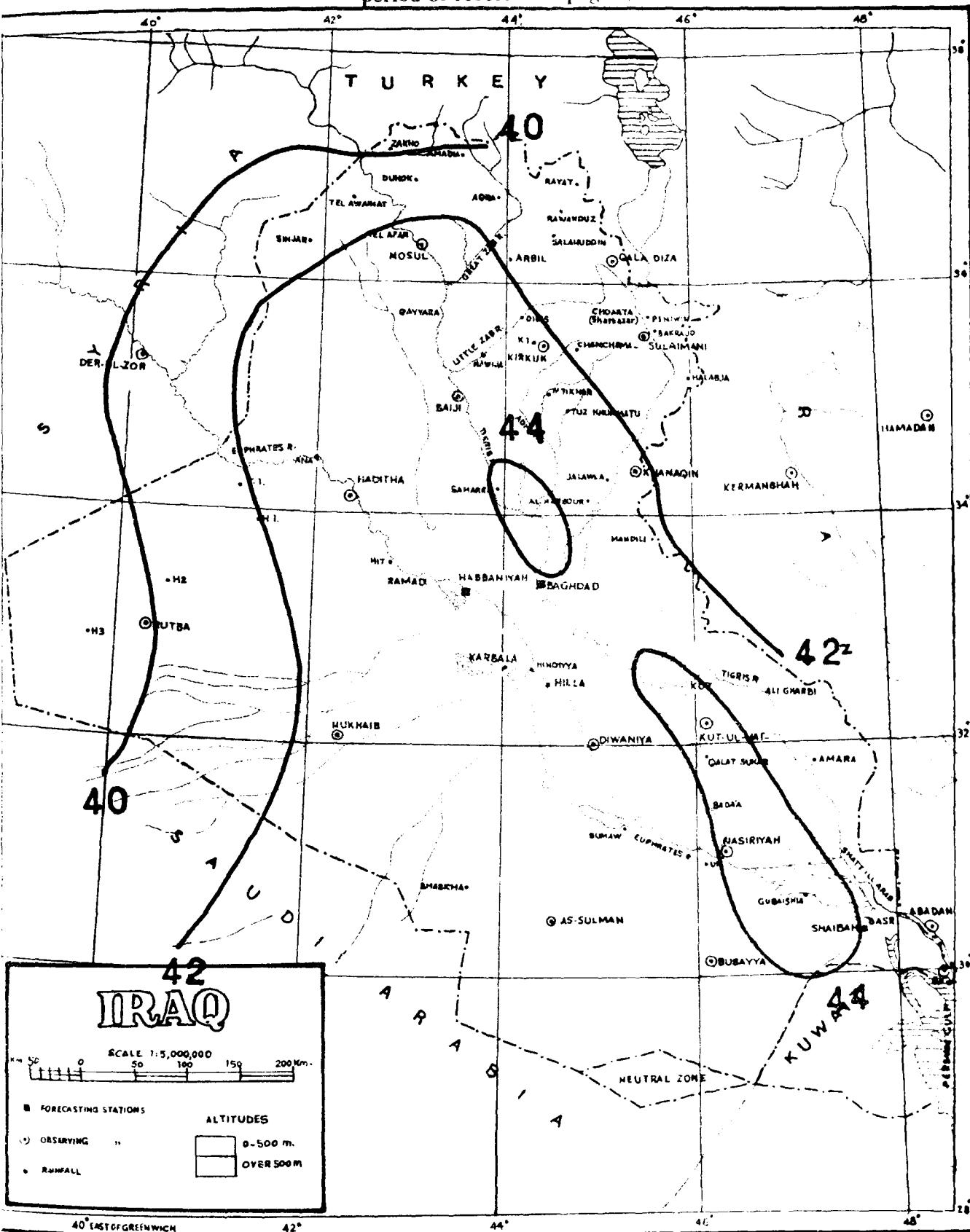
44

JULY



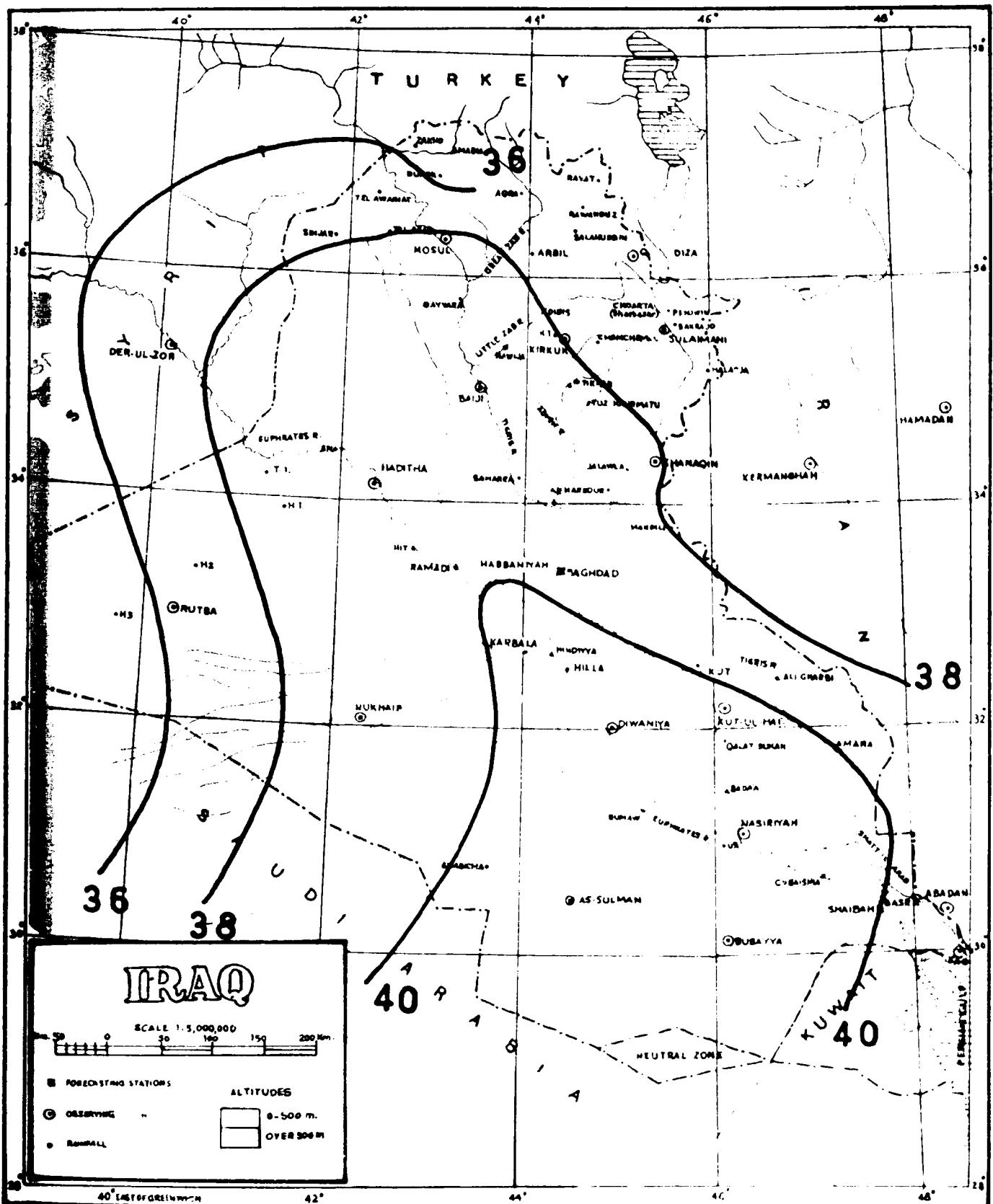
TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 23

45
AUGUST



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2/3

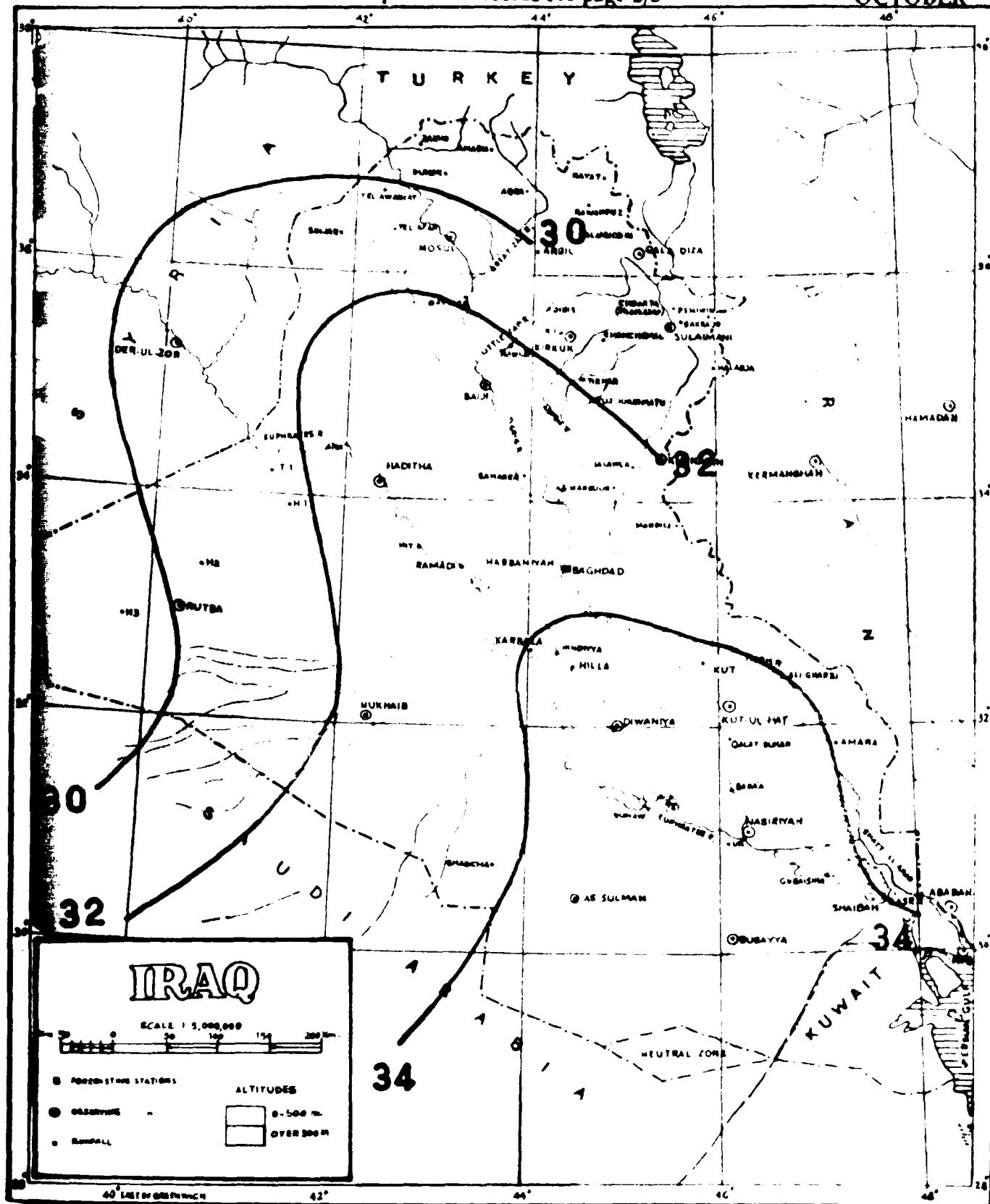
SEPTEMBER



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2/3

47

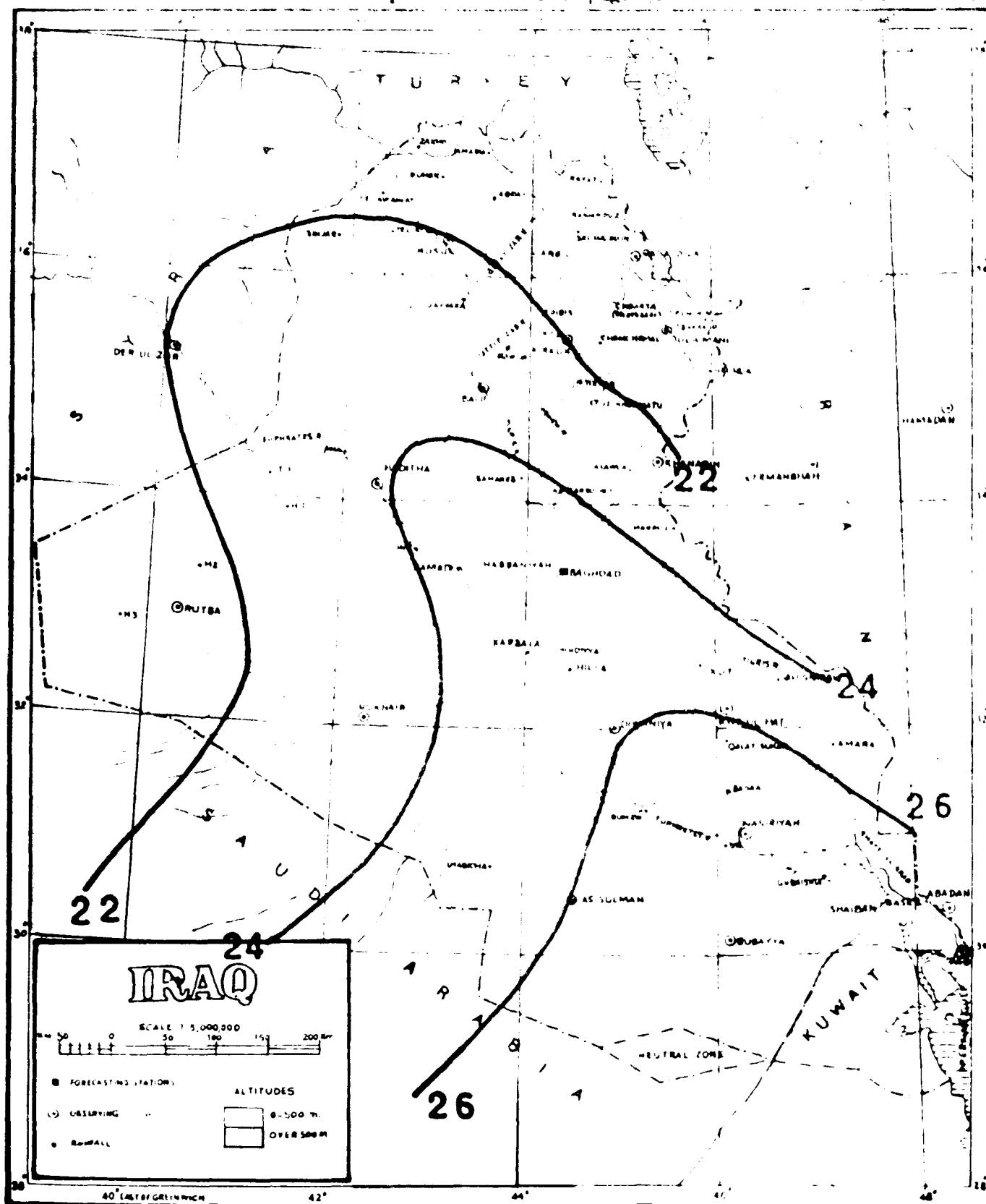
OCTOBER



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2.3

48

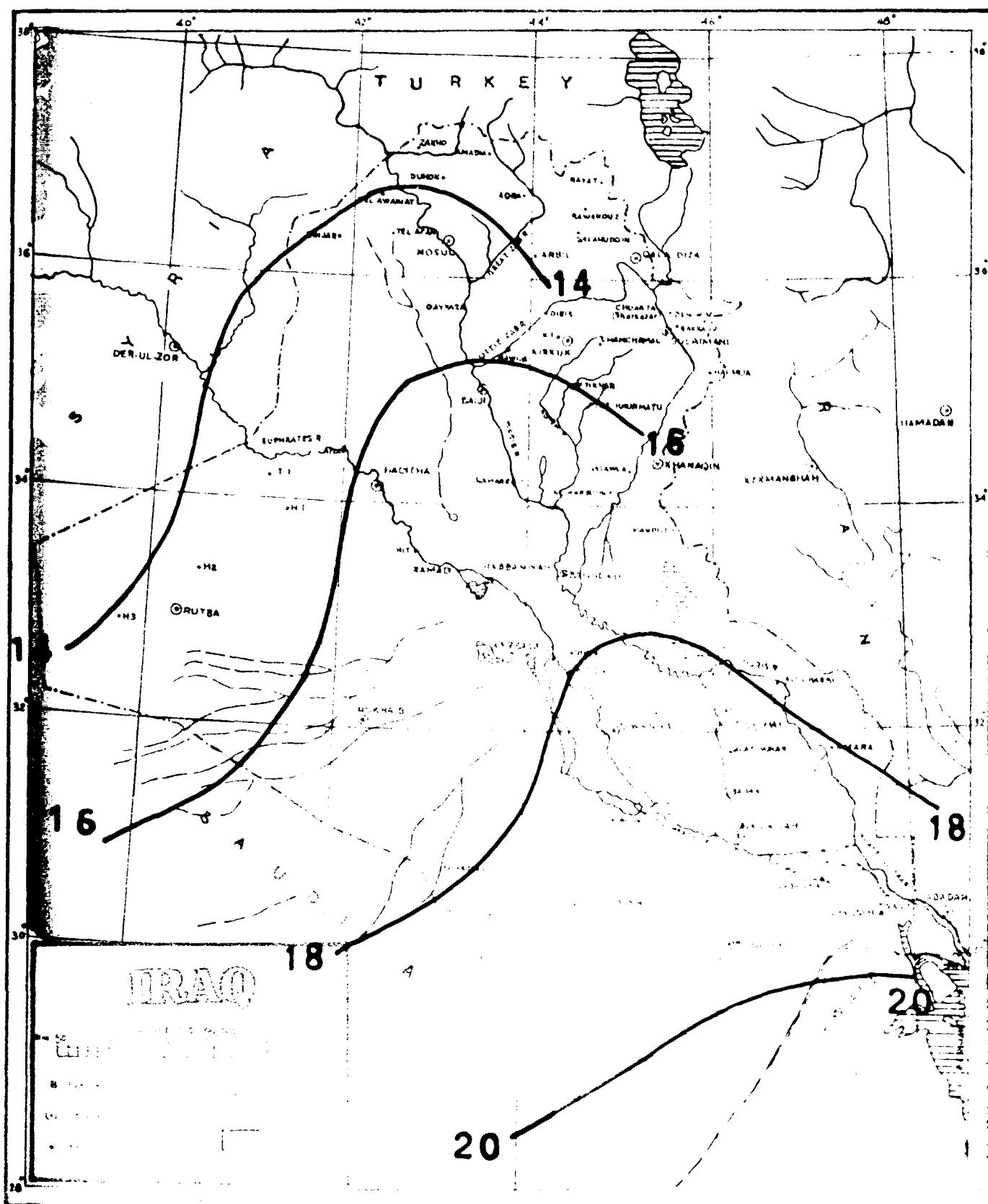
NOVEMBER



TEMPERATURE
Mean Monthly Maximum (C°)
period of records see page 2/3

49

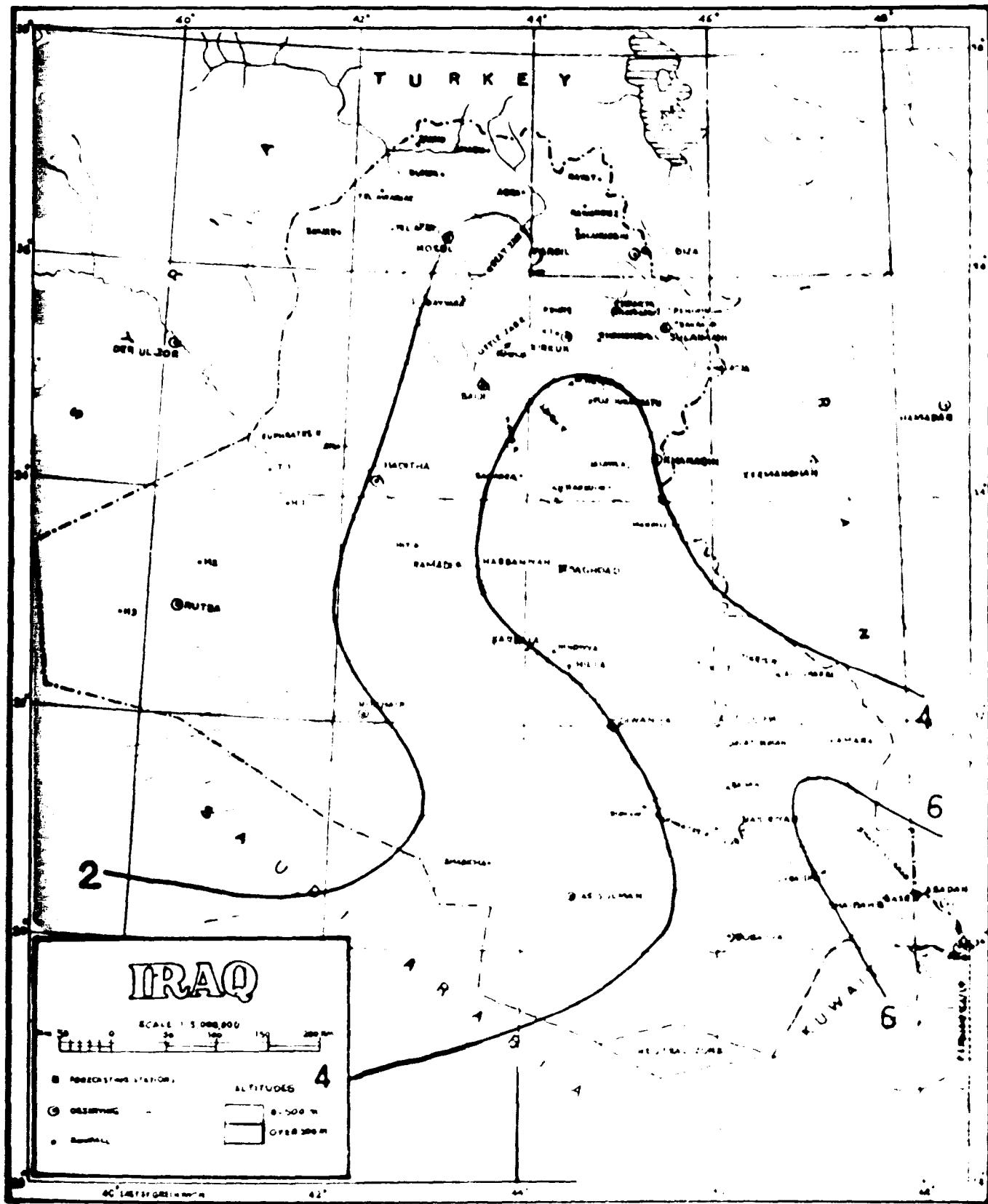
DECEMBER



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

50

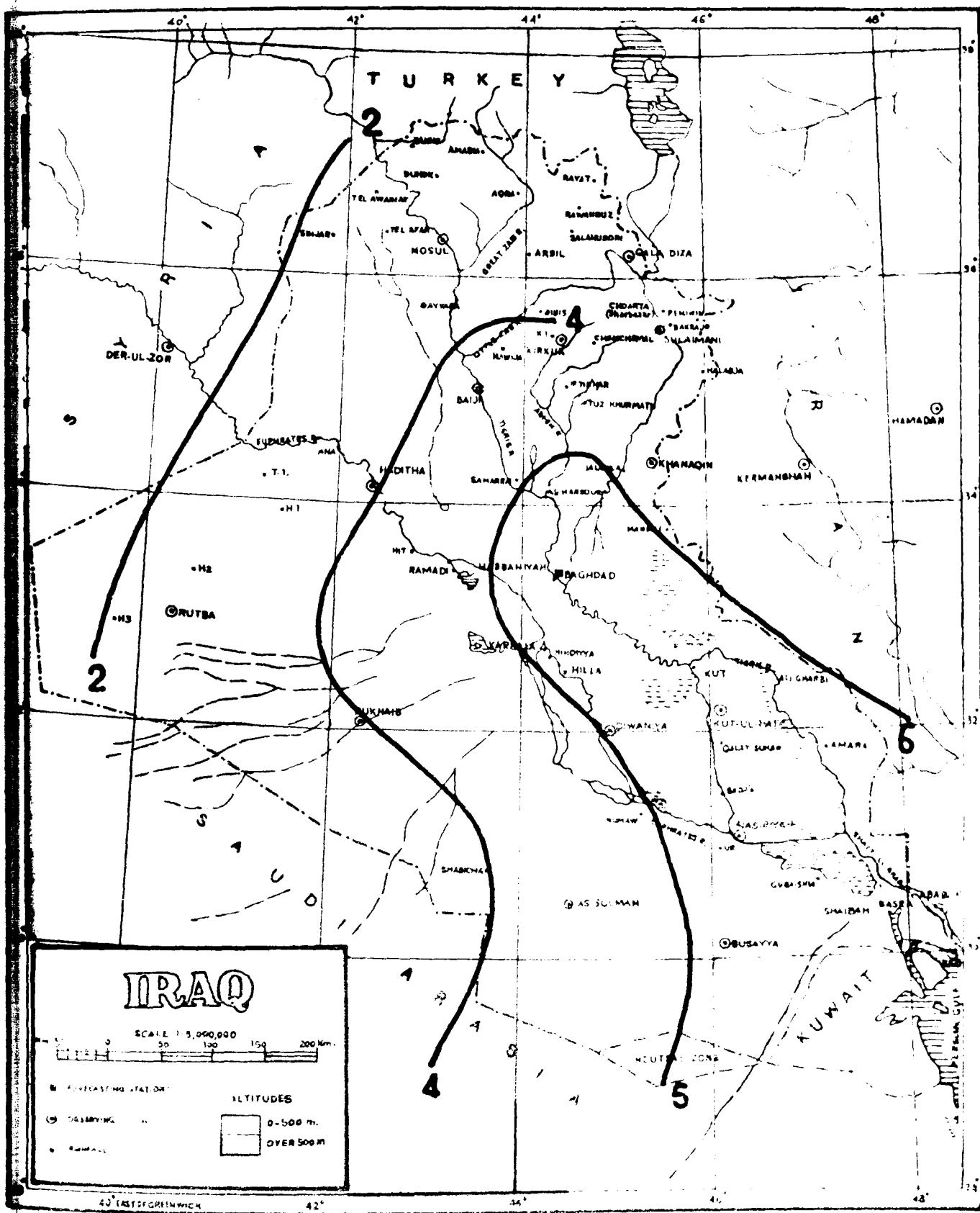
JANUARY



TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

51

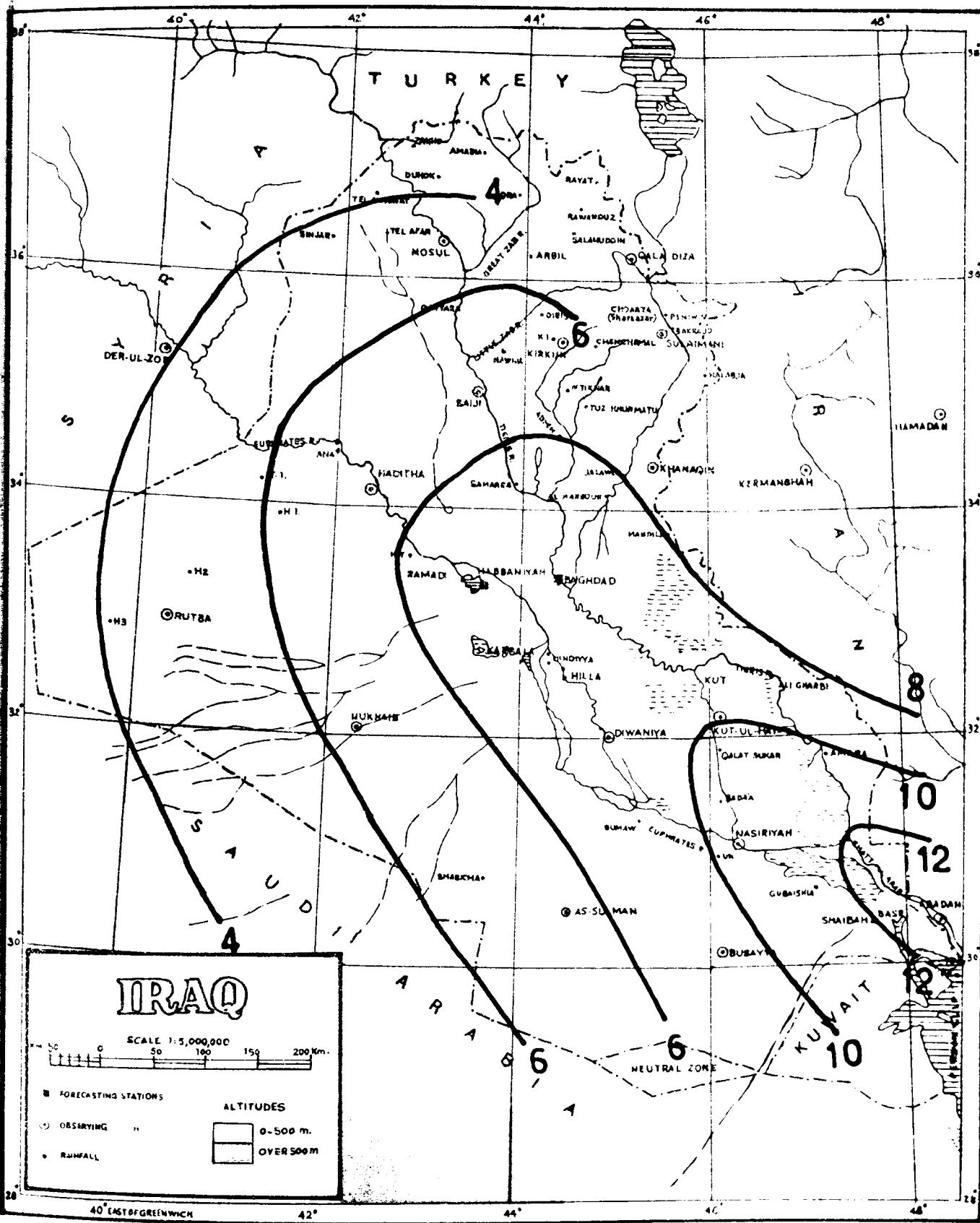
FEBRUARY



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

52

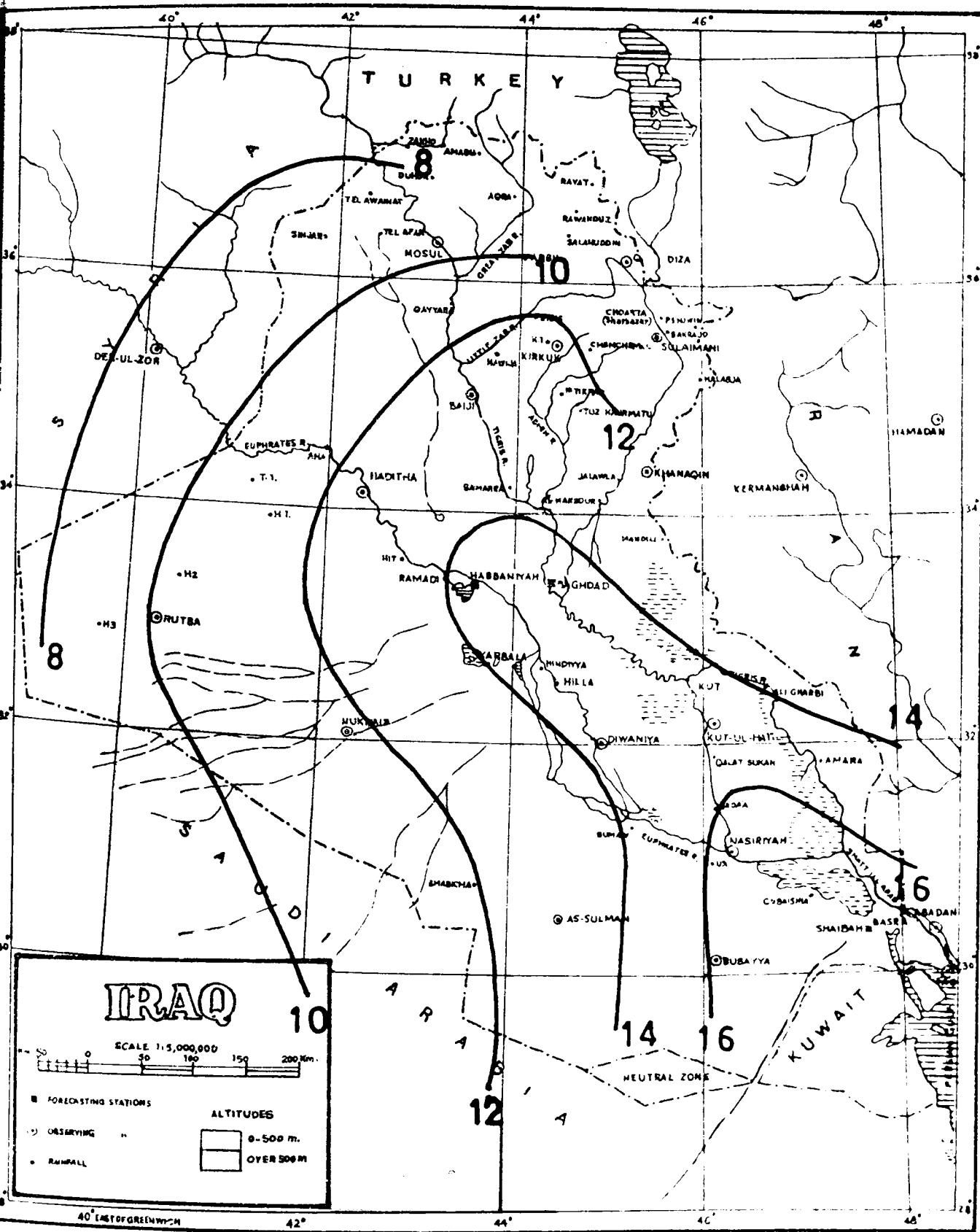
MARCH



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

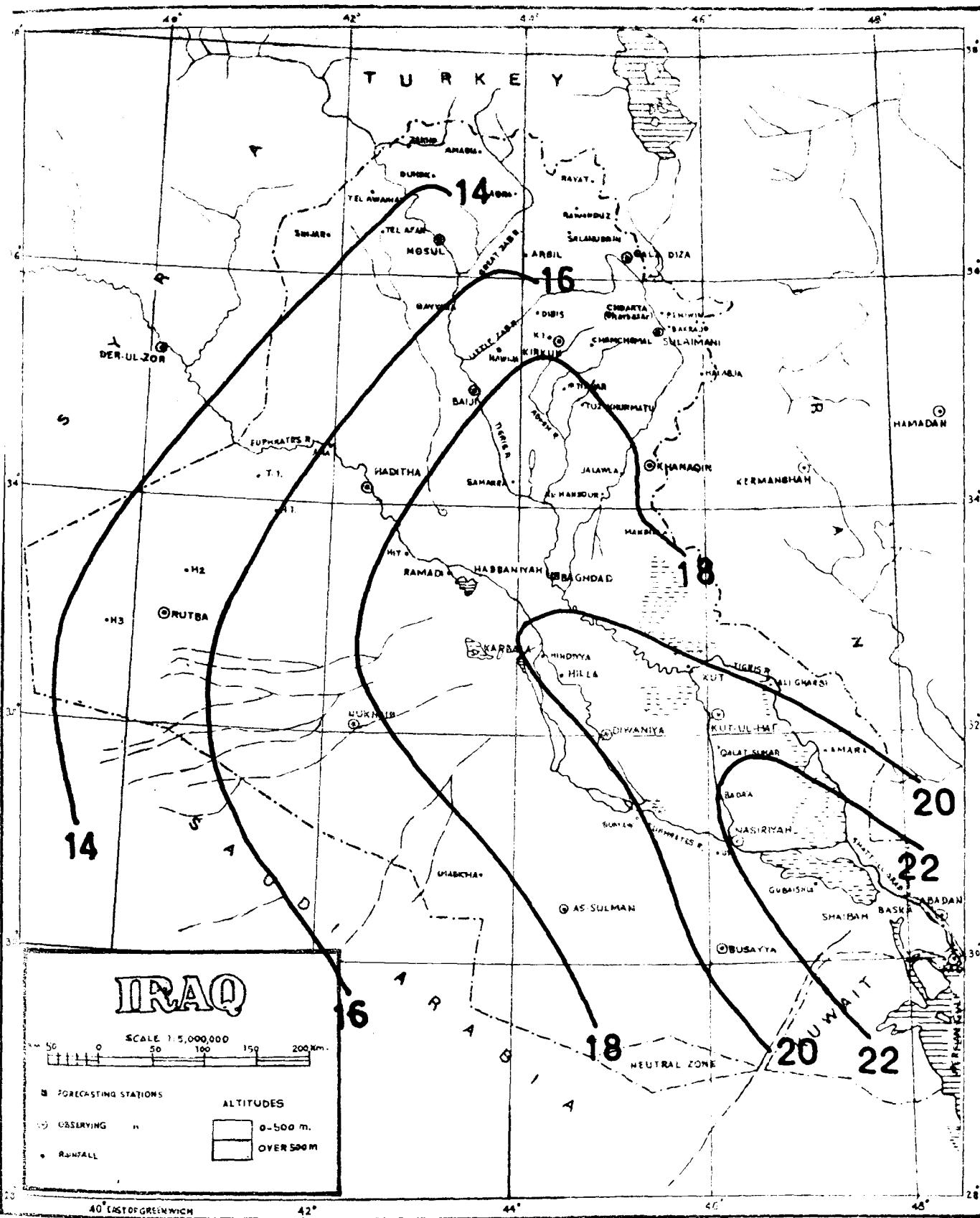
53

APRIL



TEMPERATURE
 Mean Monthly Minimum (C°)
 period of records see page 2/3

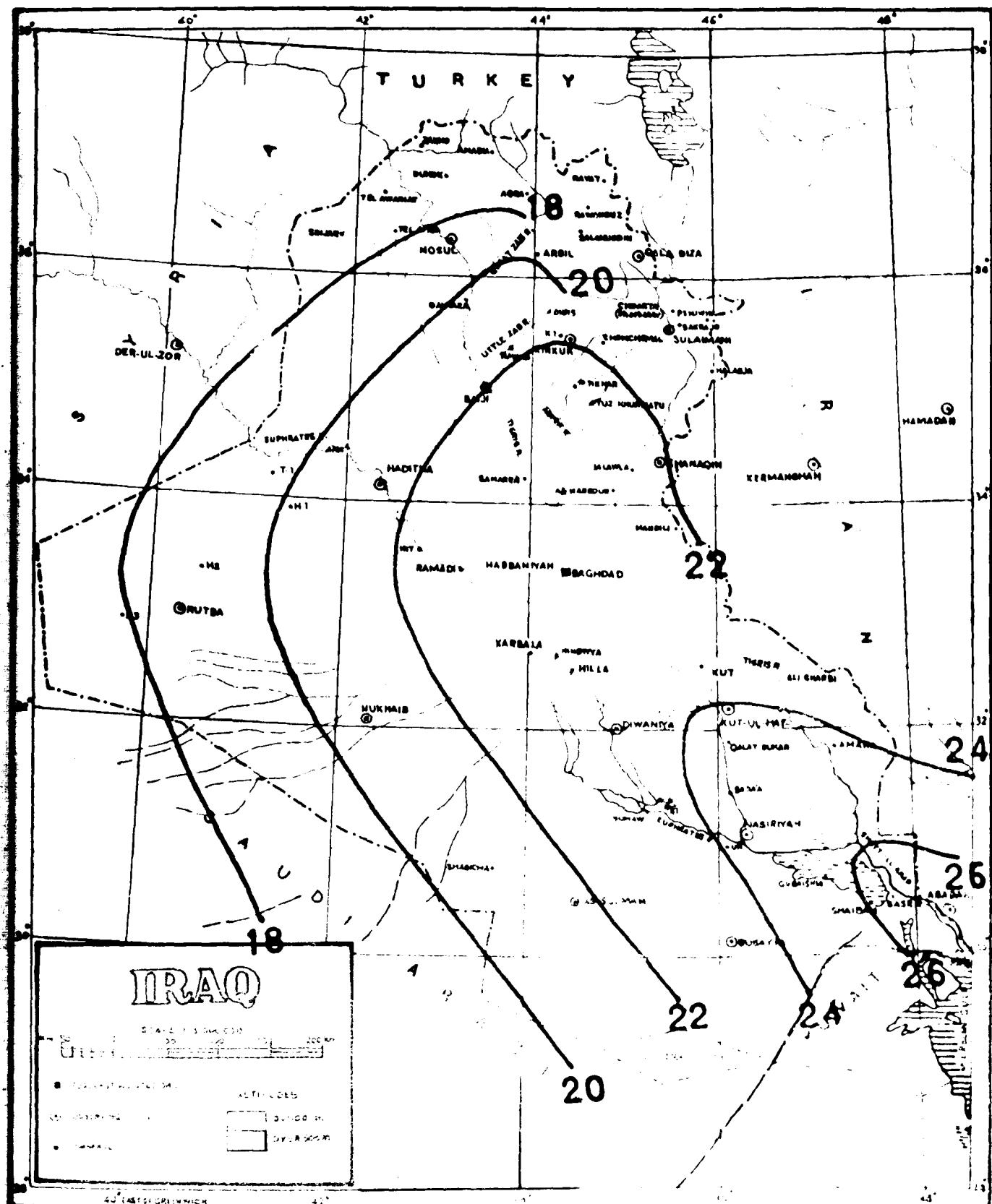
54
 MAY



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

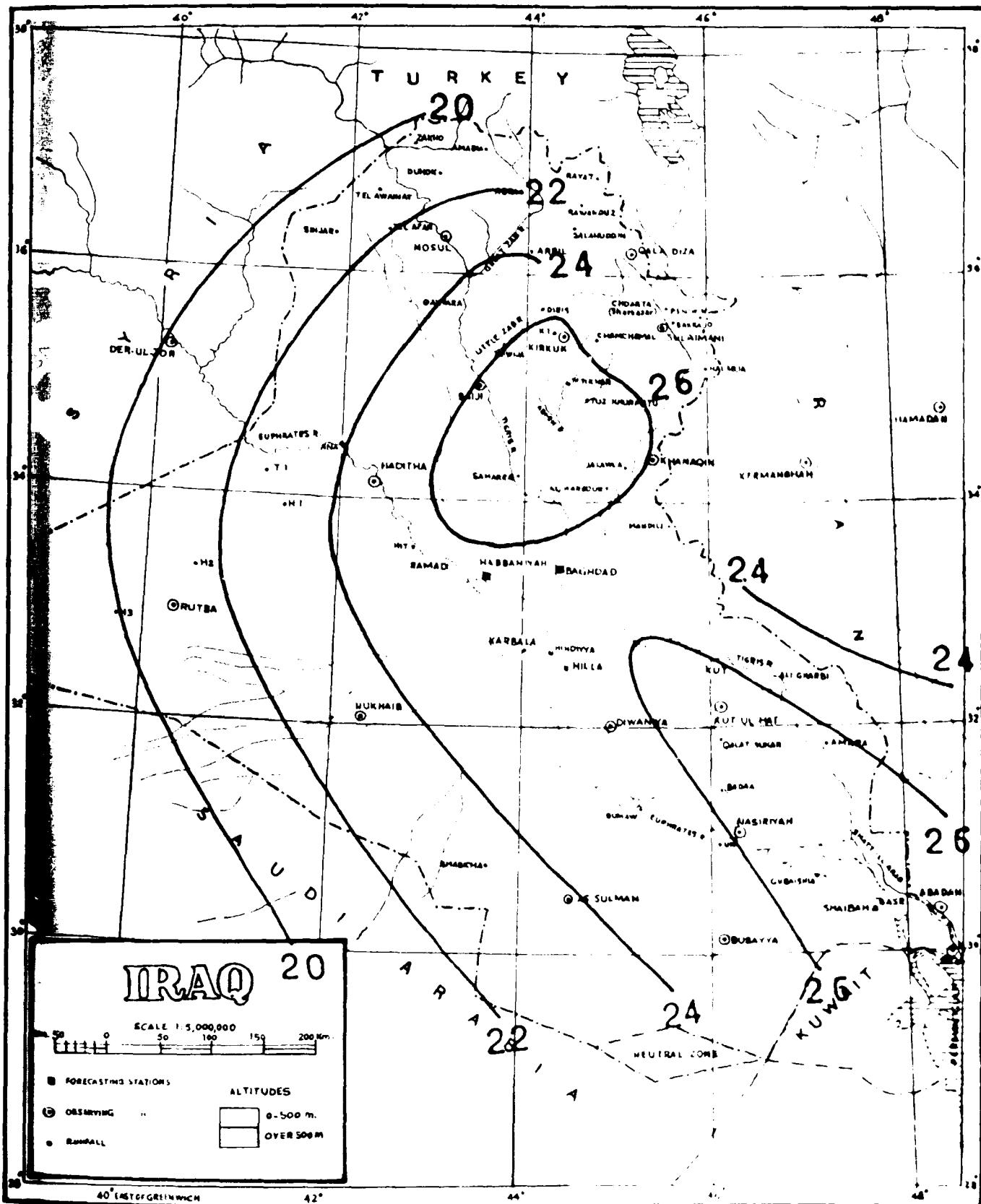
55

JUNE



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

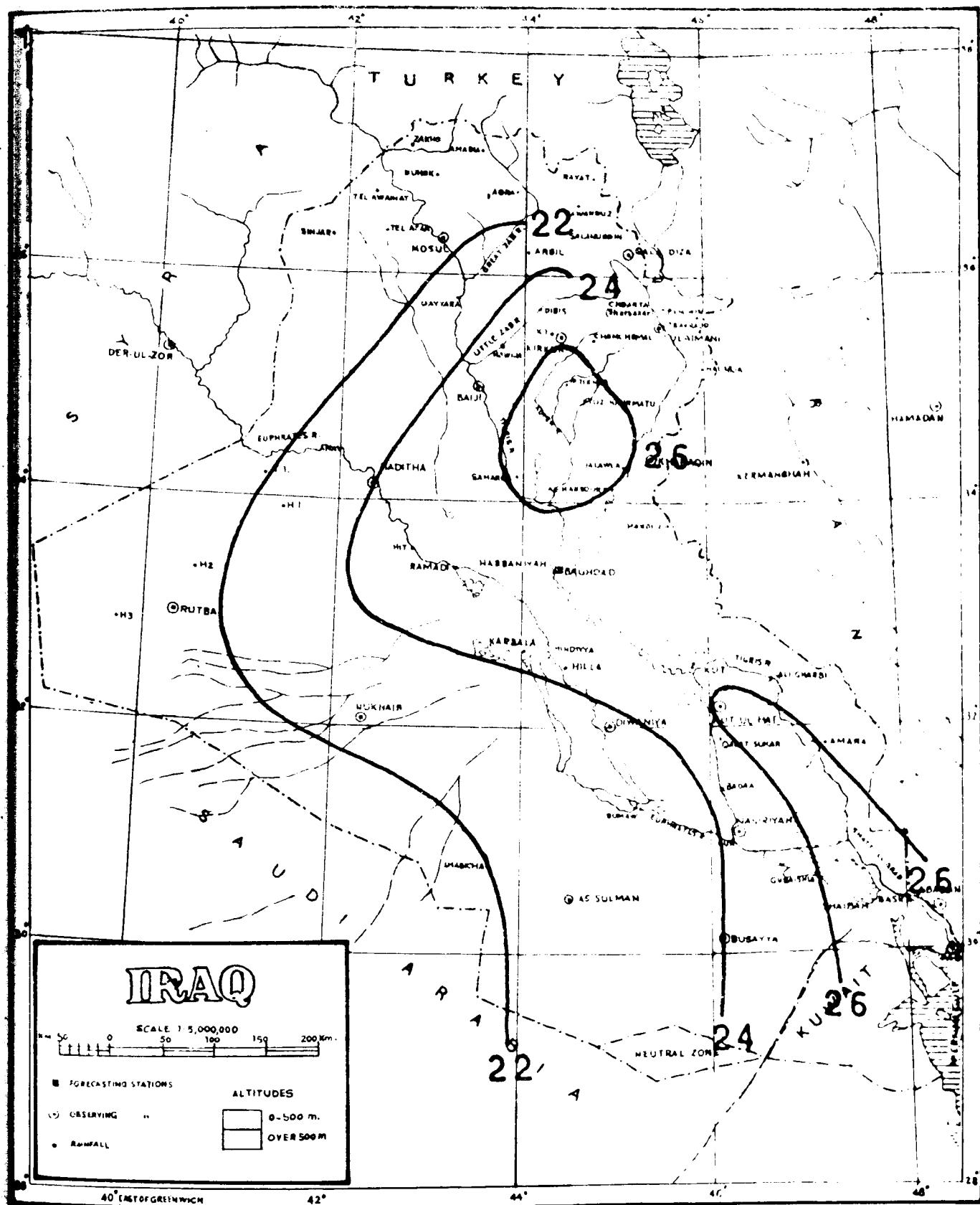
56
JULY



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

57

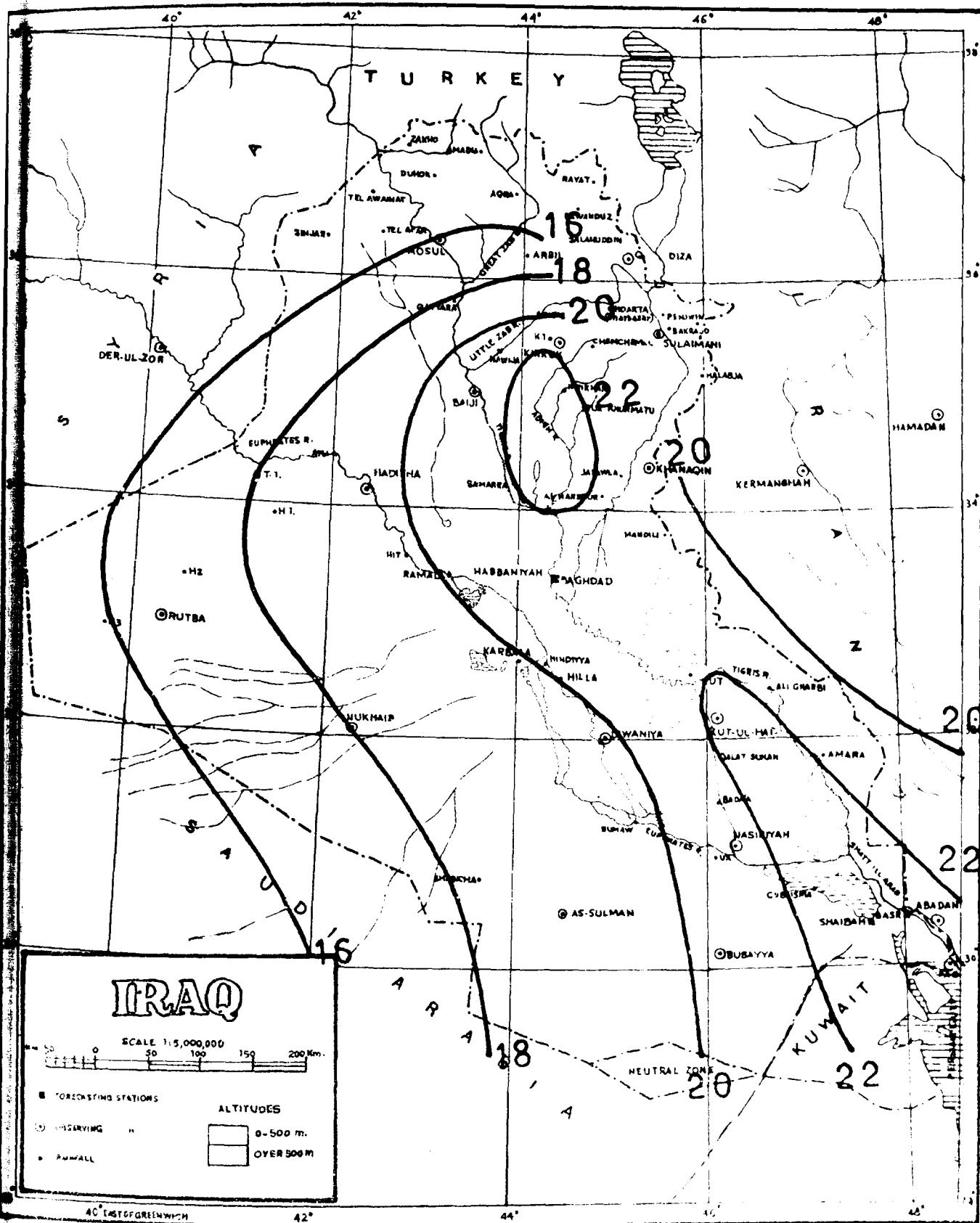
AUGUST



TEMPERATURE
Mean Monthly Minimum ((C°)
period of records see page 2/3

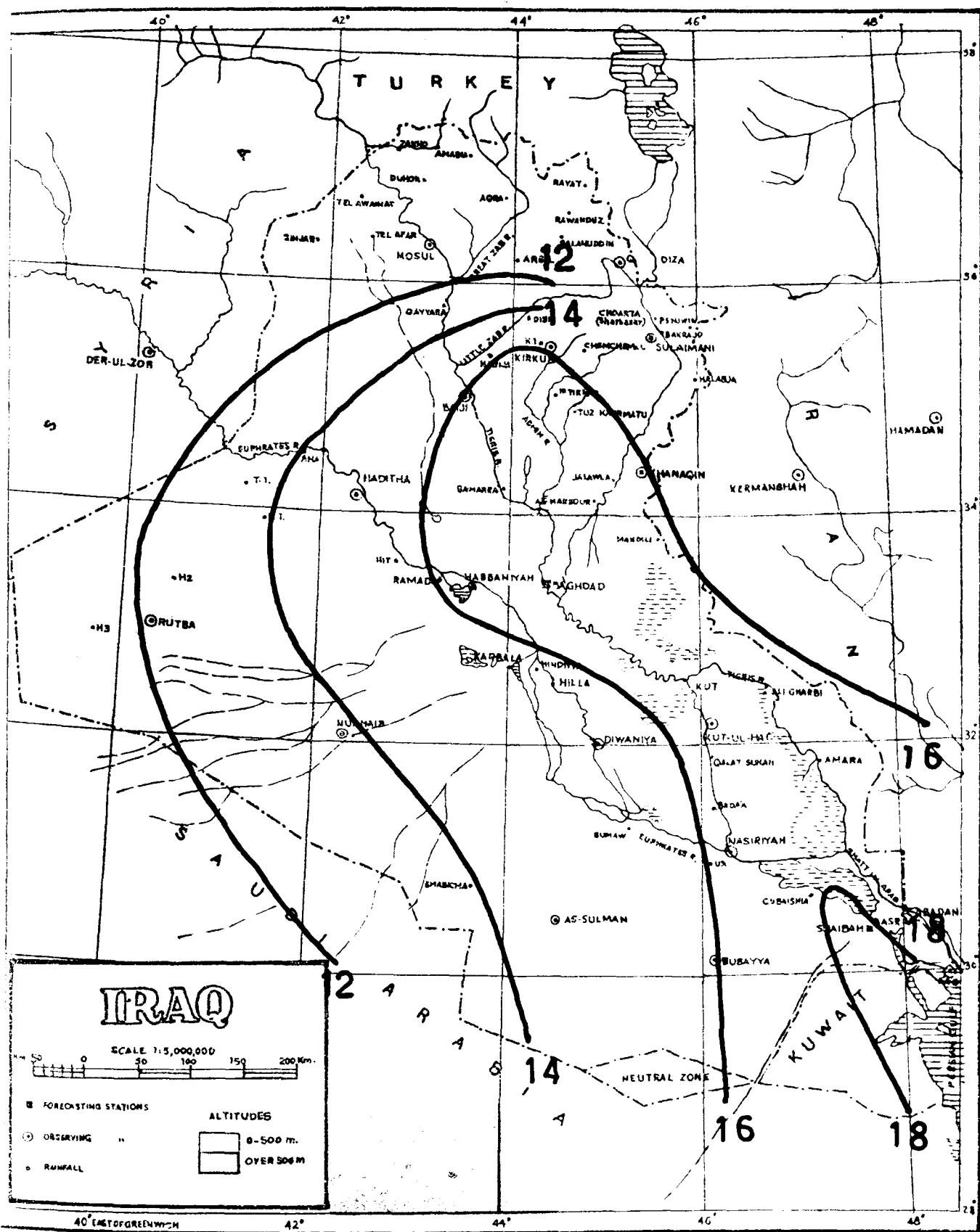
58

SEPTEMBER



TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

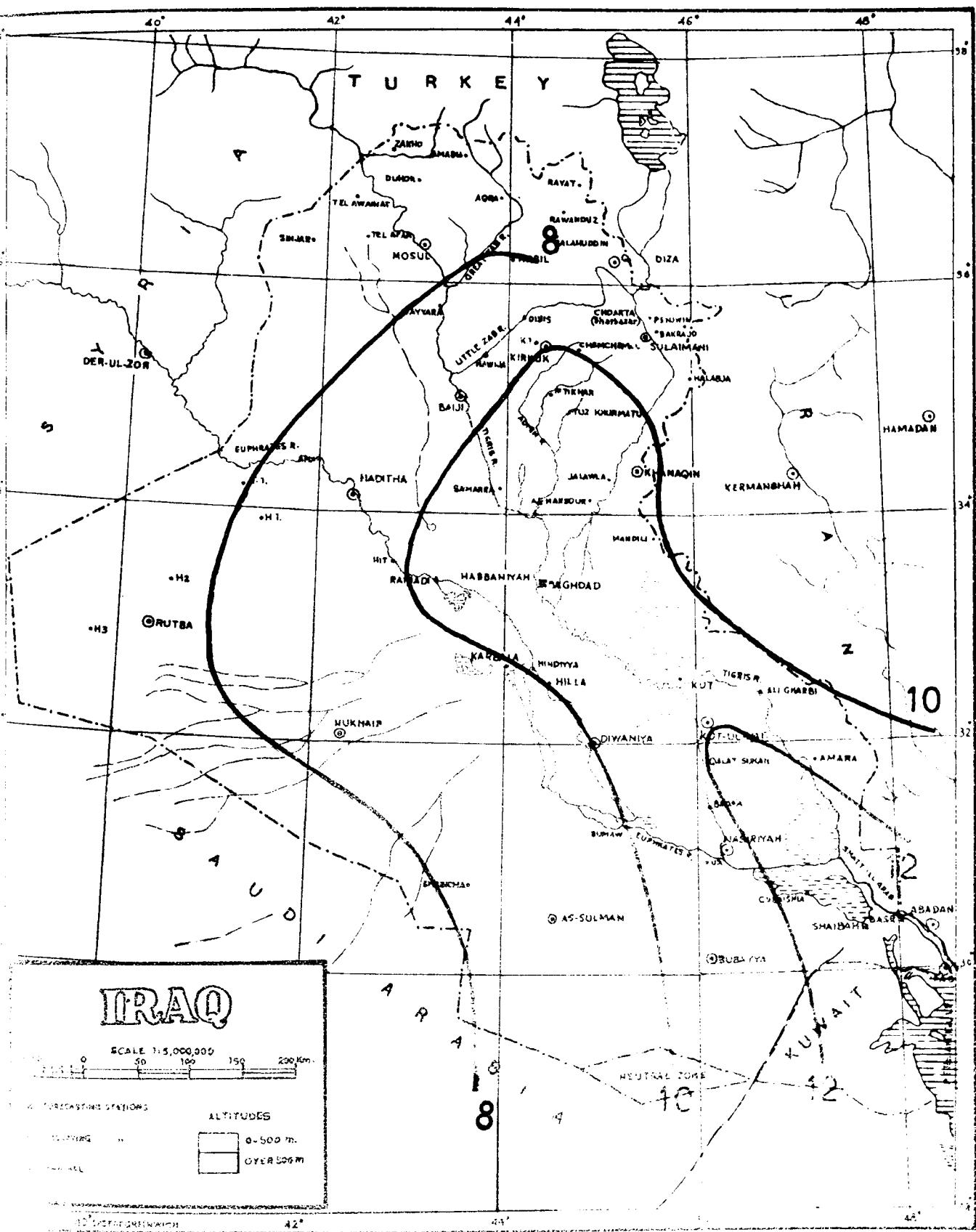
59
OCTOBER



TEMPERATURE
Mean Monthly Minimum (C°)
period of records see page 2/3

60

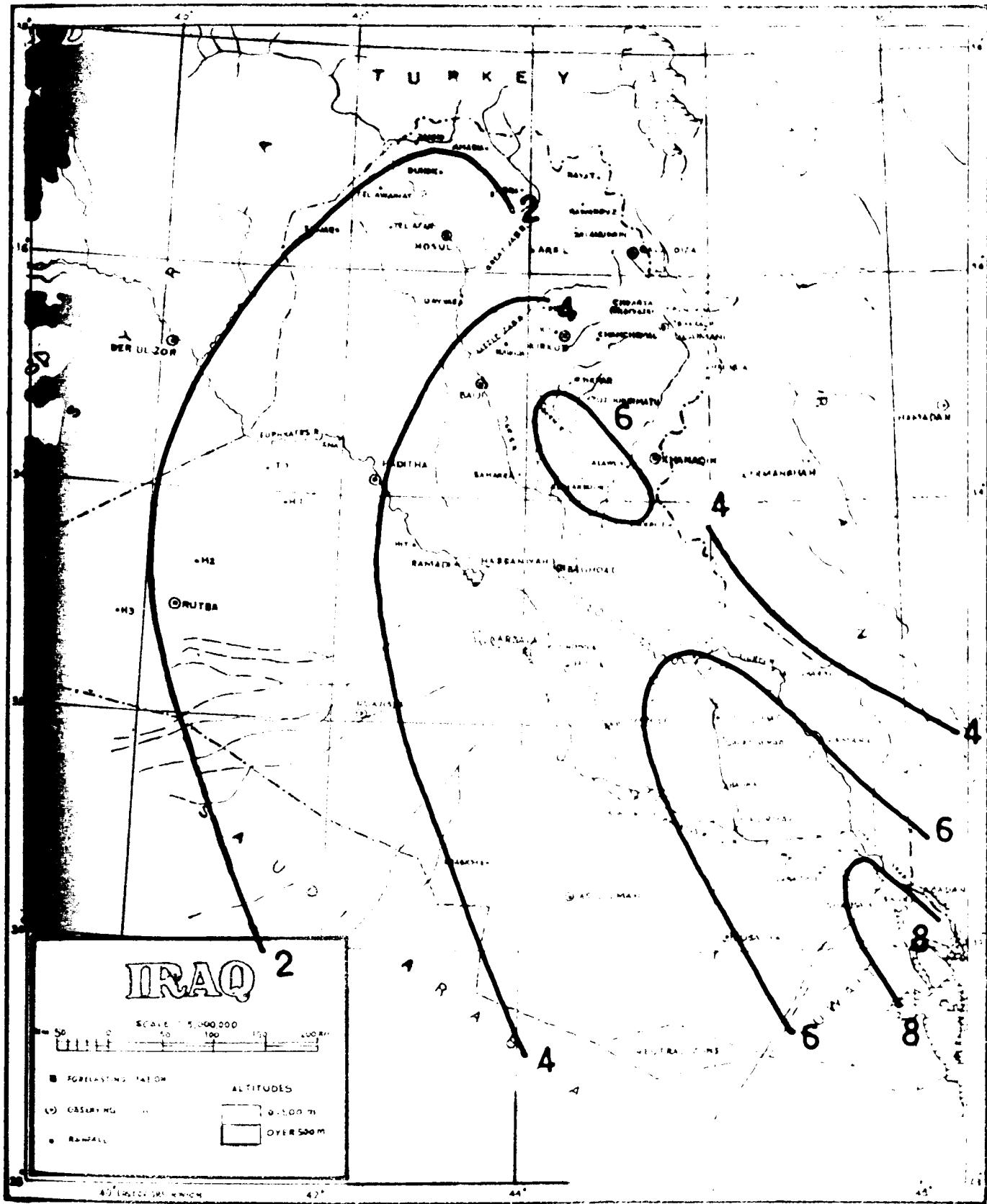
NOVEMBER



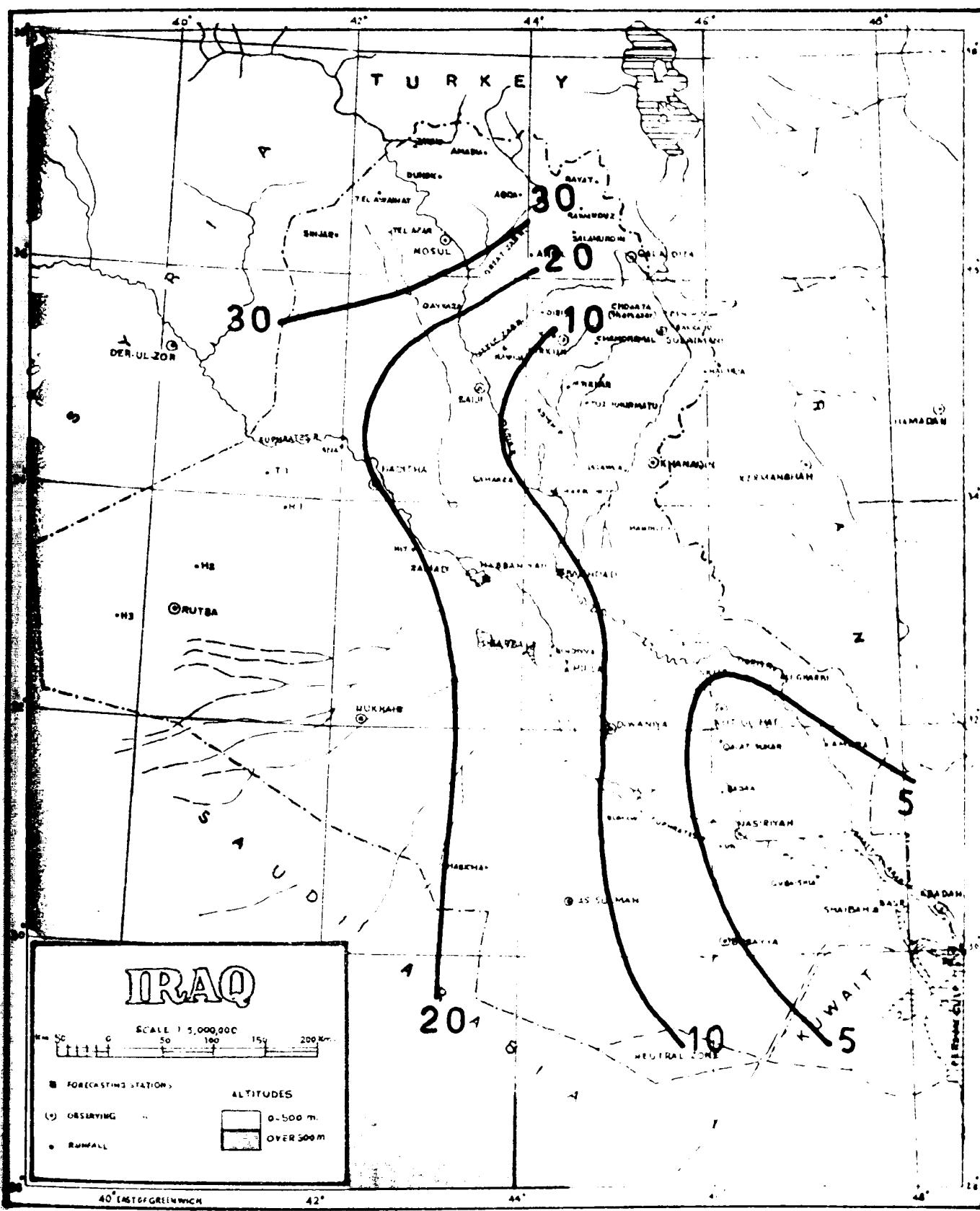
TEMPERATURE
Mean Monthly Minimum ($^{\circ}$ C)
period of records see page 2/3

61

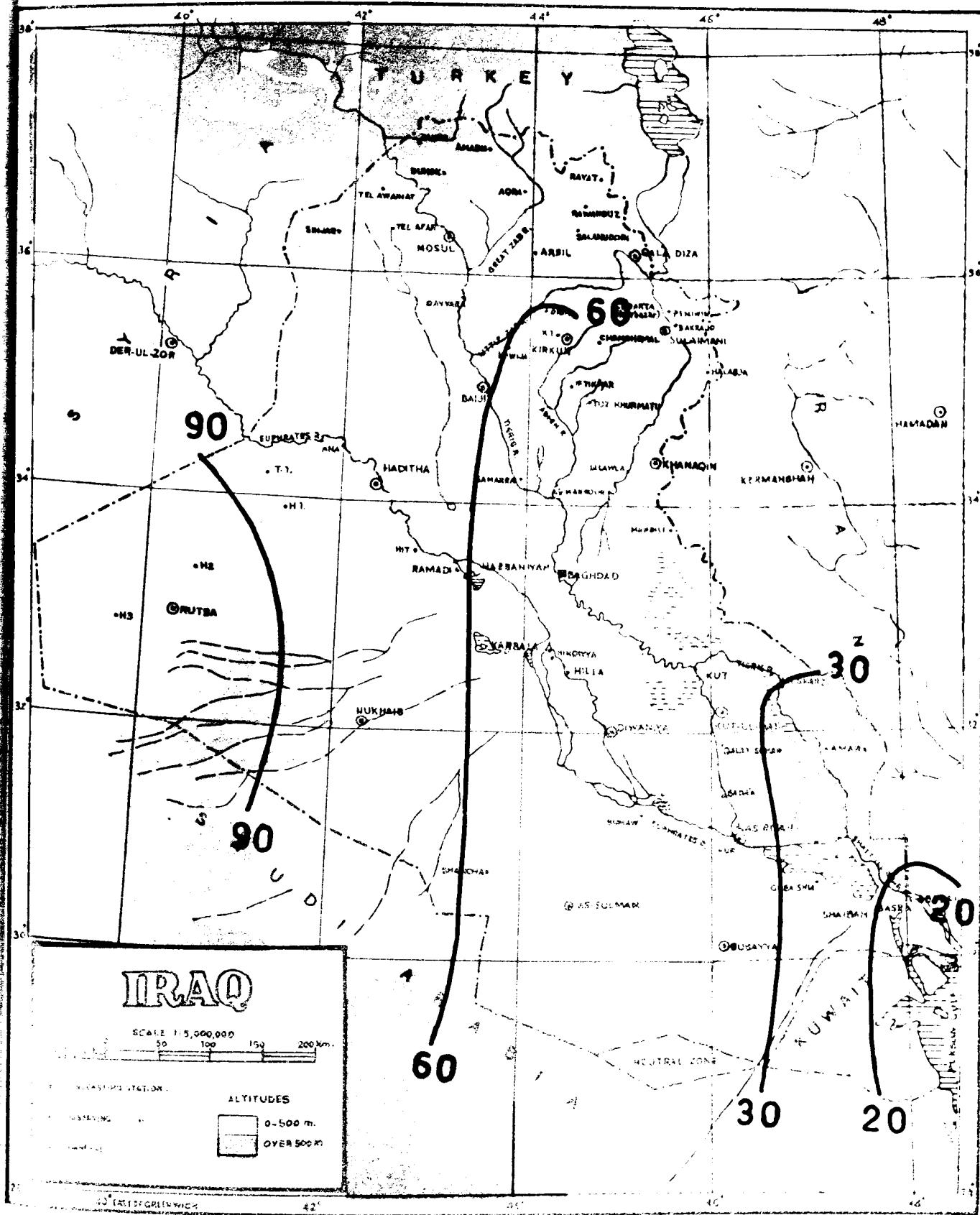
DECEMBER



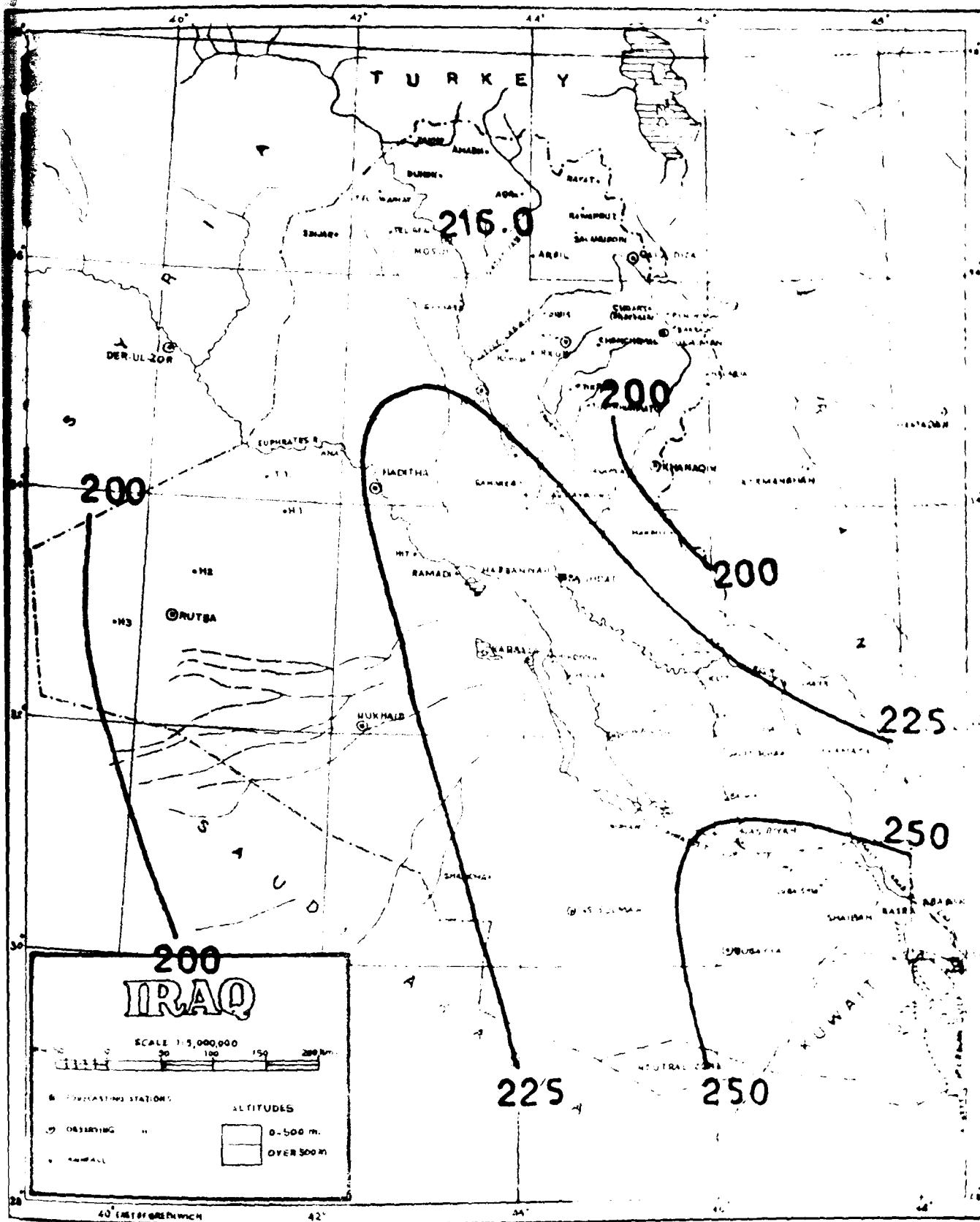
TEMPERATURE
Mean Annual Number of Days with Minimum Temperature 0 °C or Less
 period of records see page 2/3



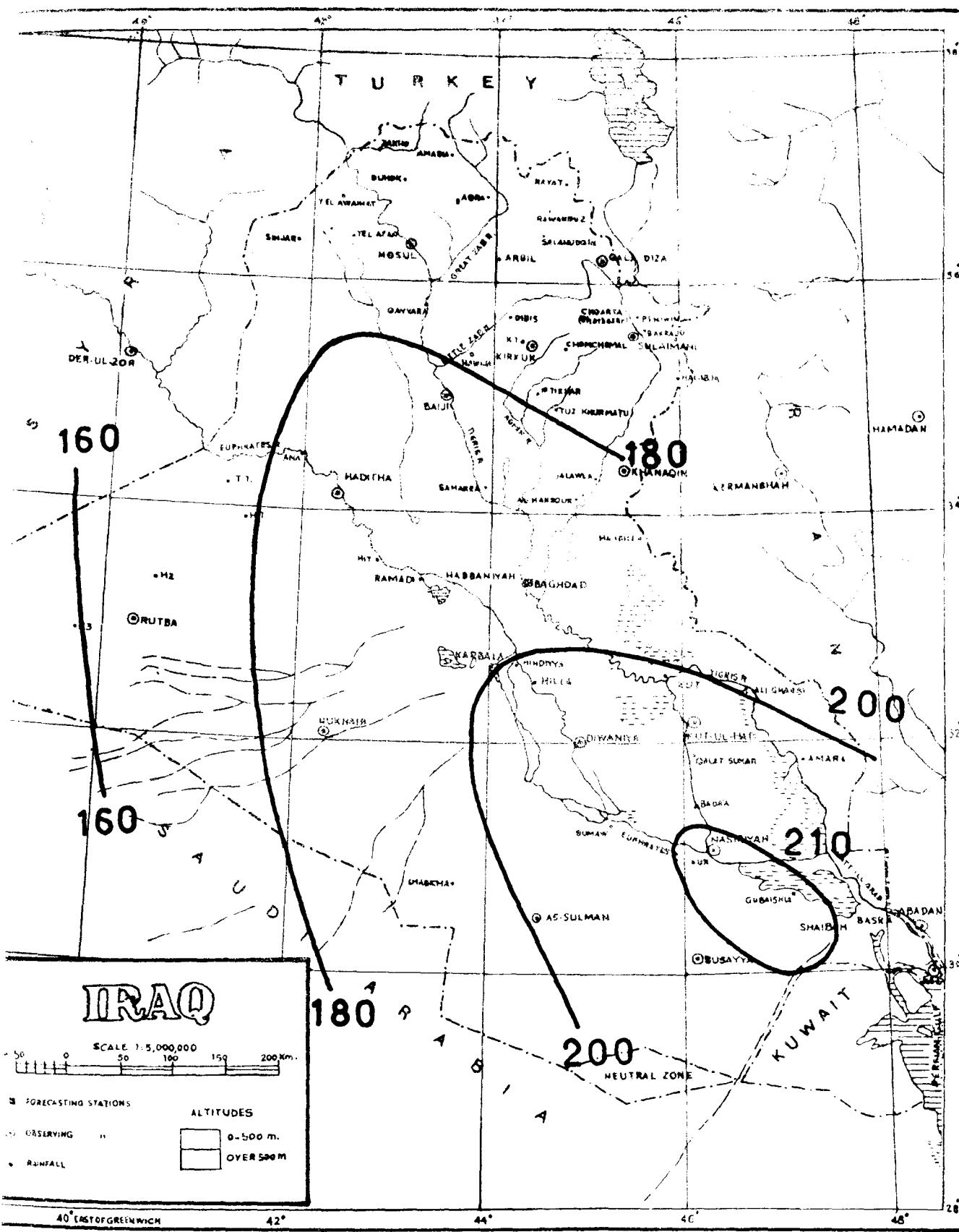
TEMPERATURE
Mean Annual Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3



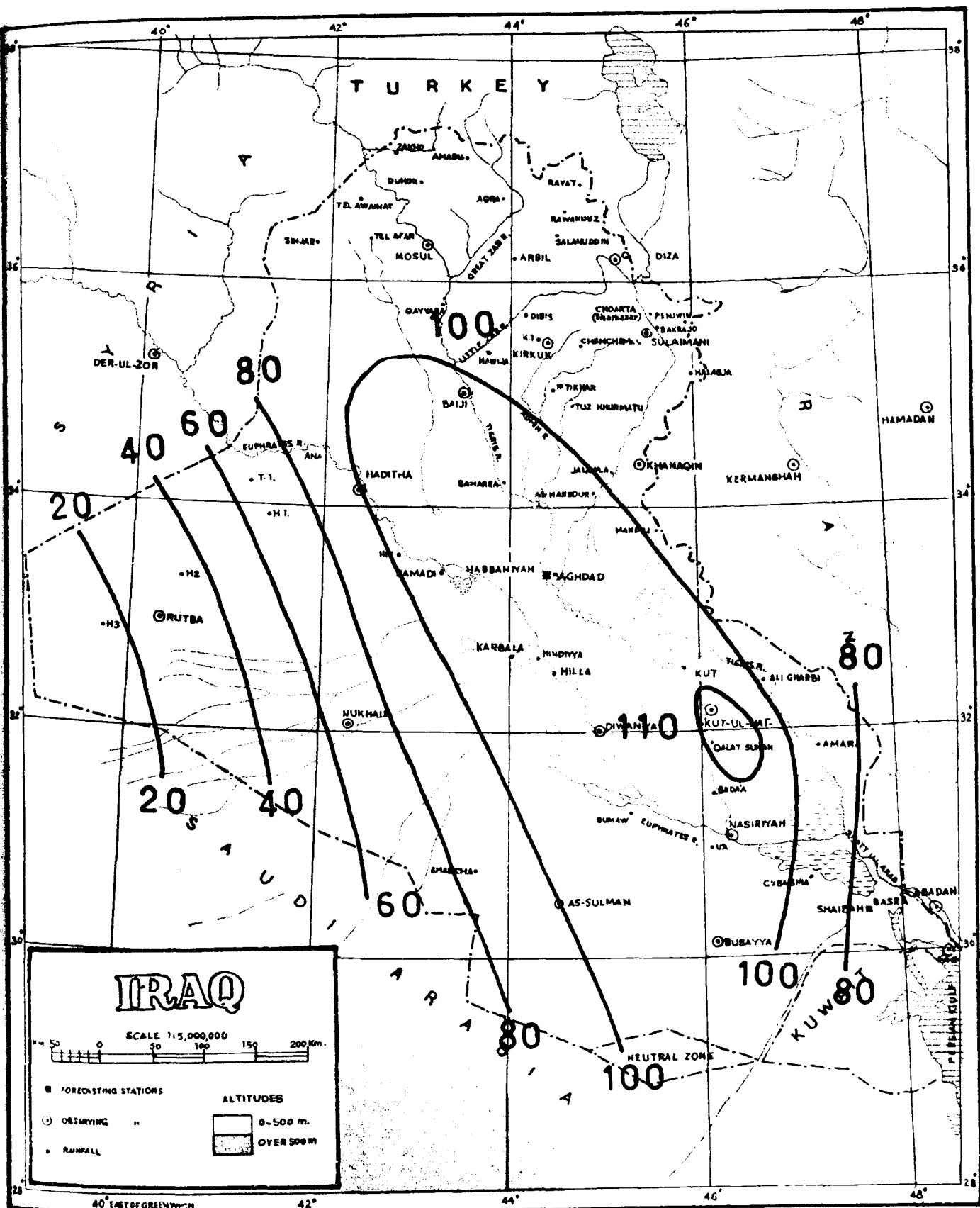
TEMPERATURE
Mean Annual Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3



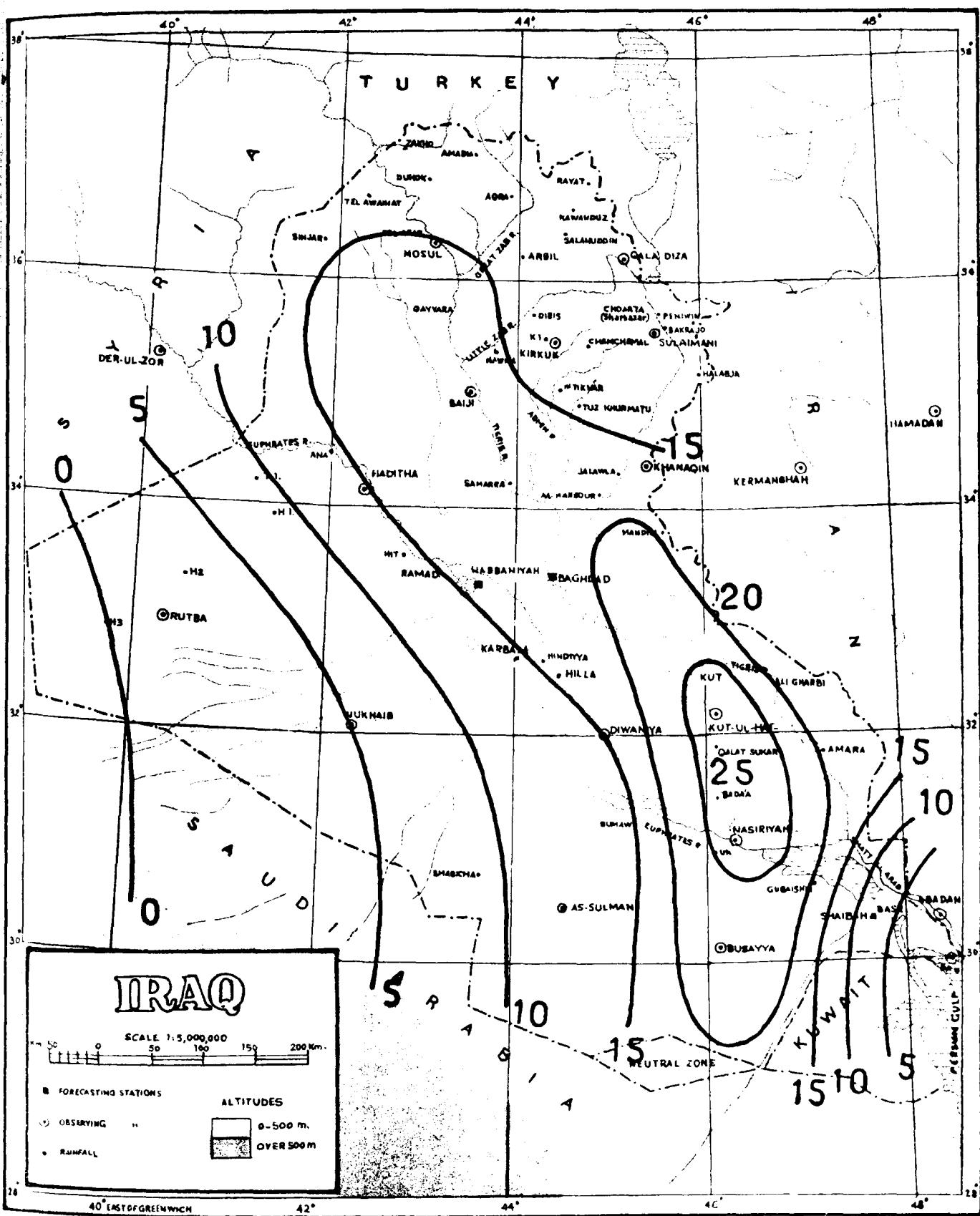
TEMPERATURE
Mean Annual Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3



TEMPERATURE
Mean Annual Number of Days with Maximum Temperature 40 C° or More
period of records see page 2/3



TEMPERATURE
Mean Annual Number of Days with Temperature Maximum Exceeding 45°C
 period of records see page 2/3

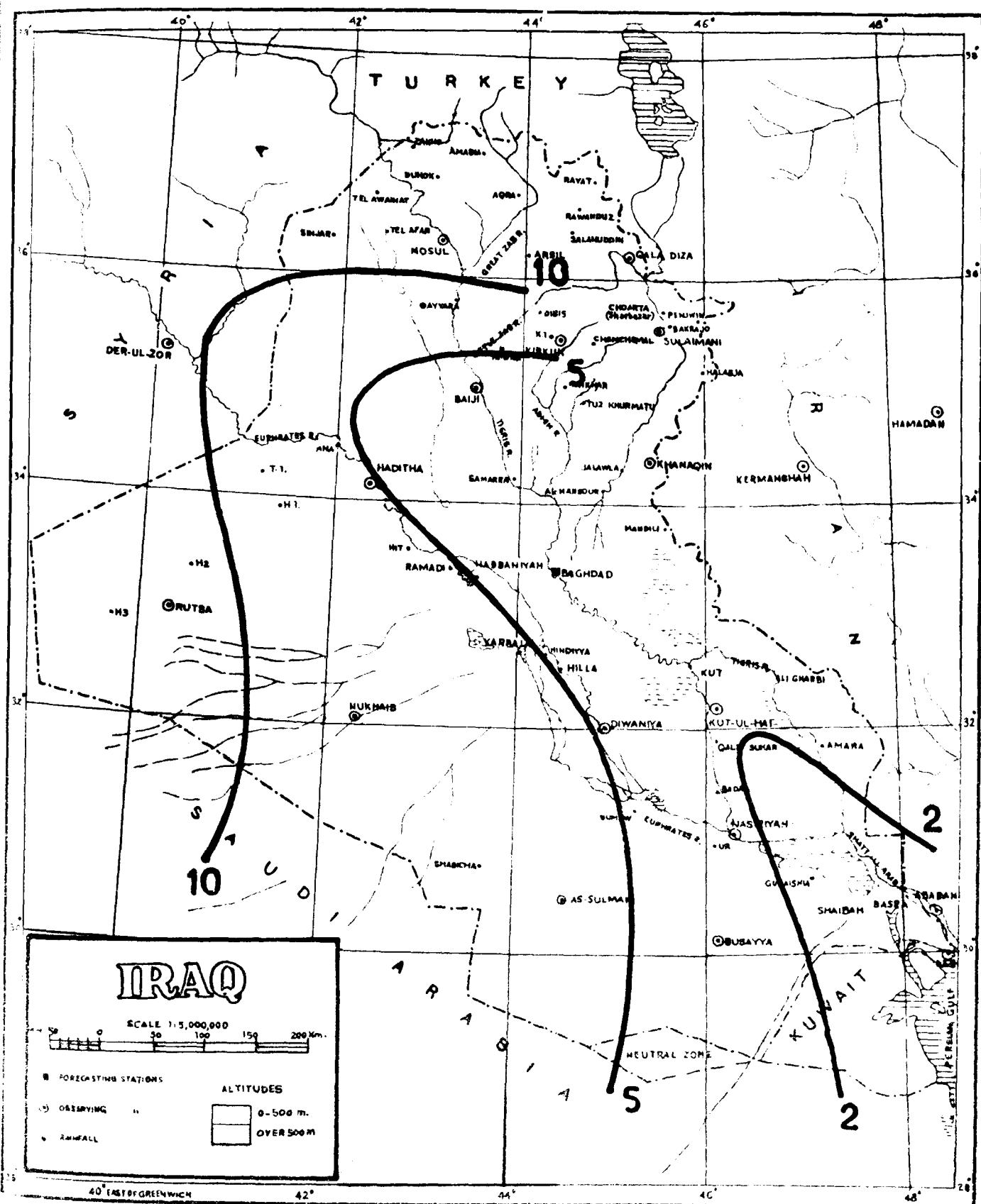


TEMPERATURE

68

Mean Monthly Number of Days with Minimum Temperature 0°C or Less
 period of records see page 2/3

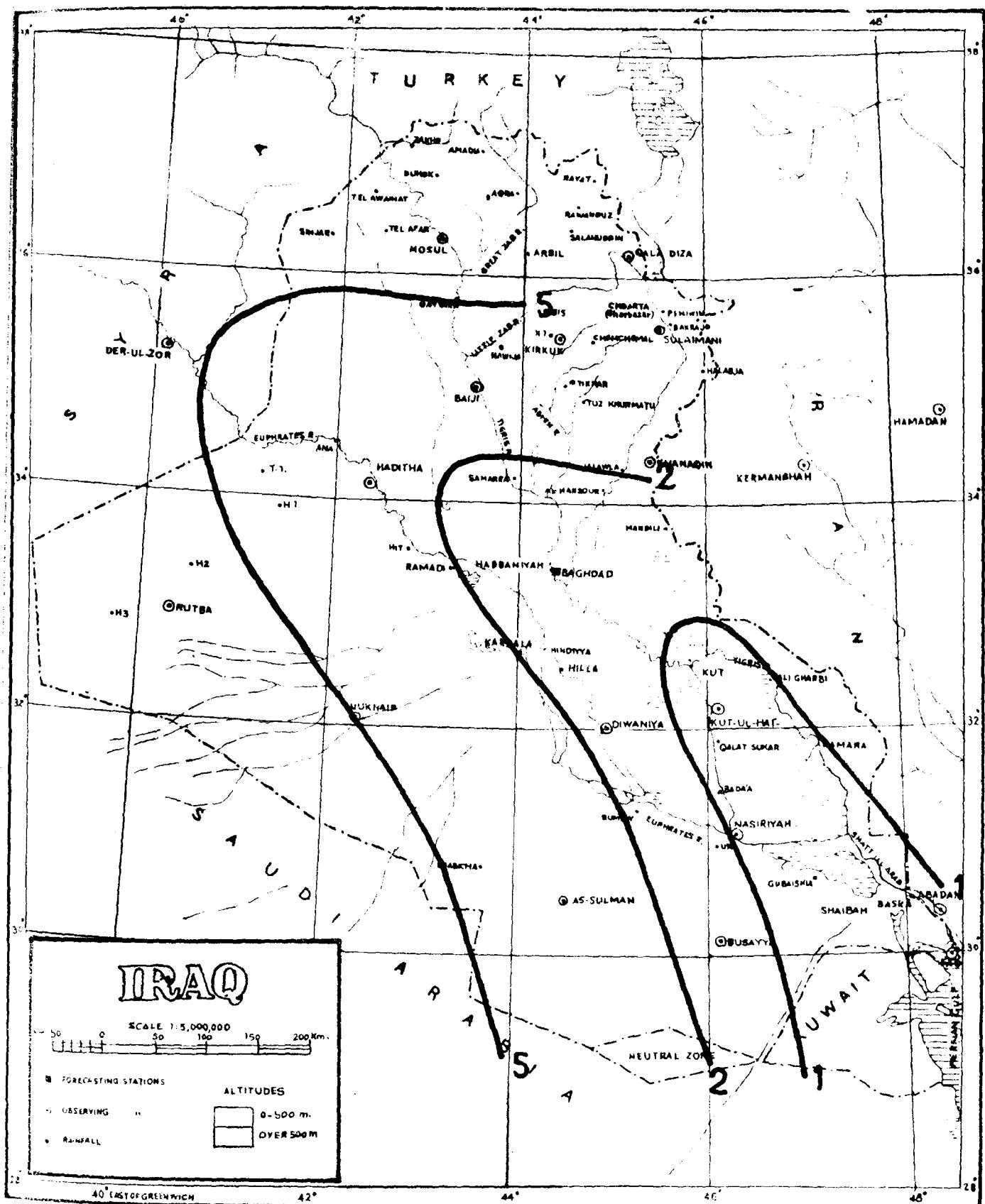
JANUARY



65

TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 0°C or Less
 period of records see page 2/3

FEBRUARY

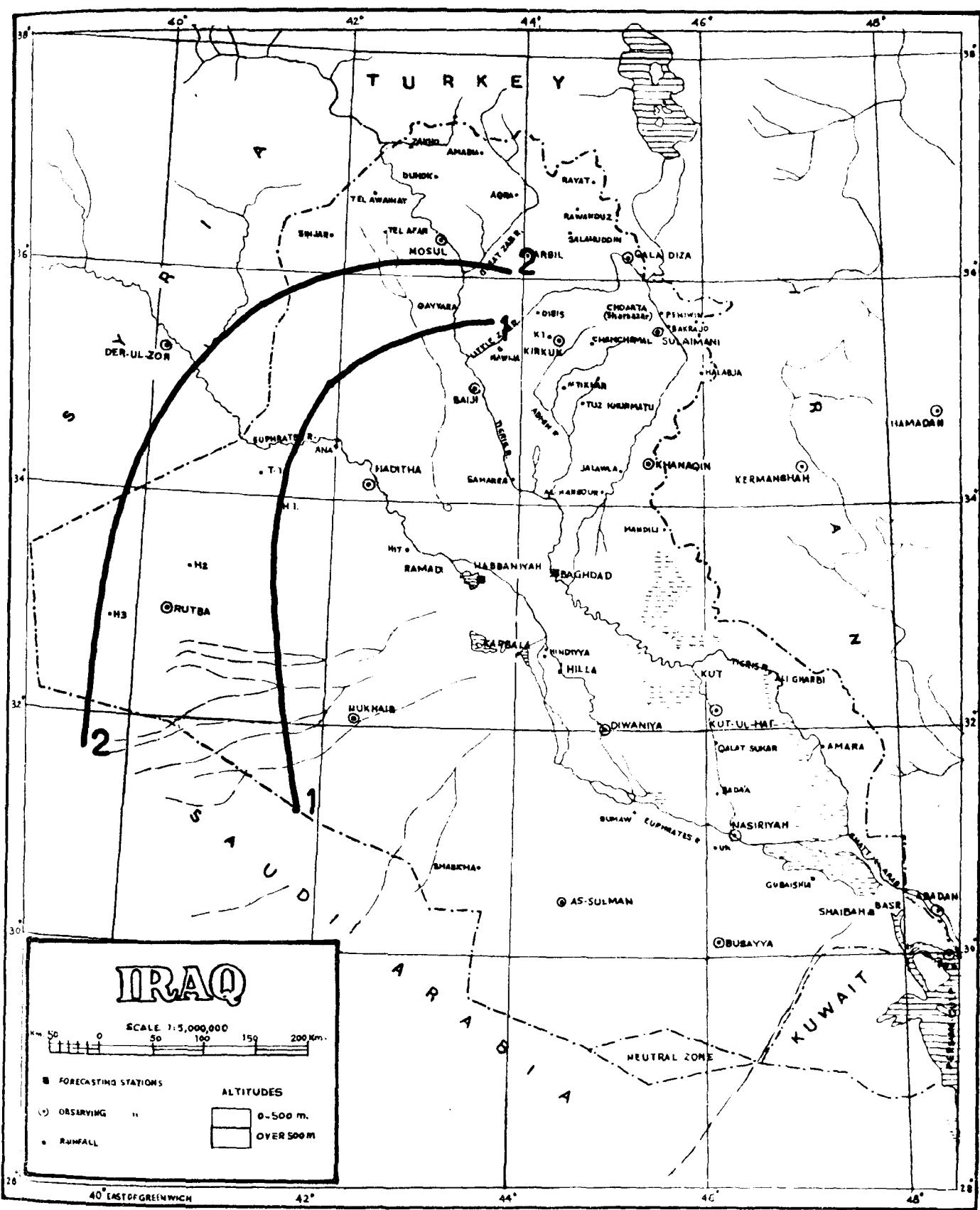


TEMPERATURE

70

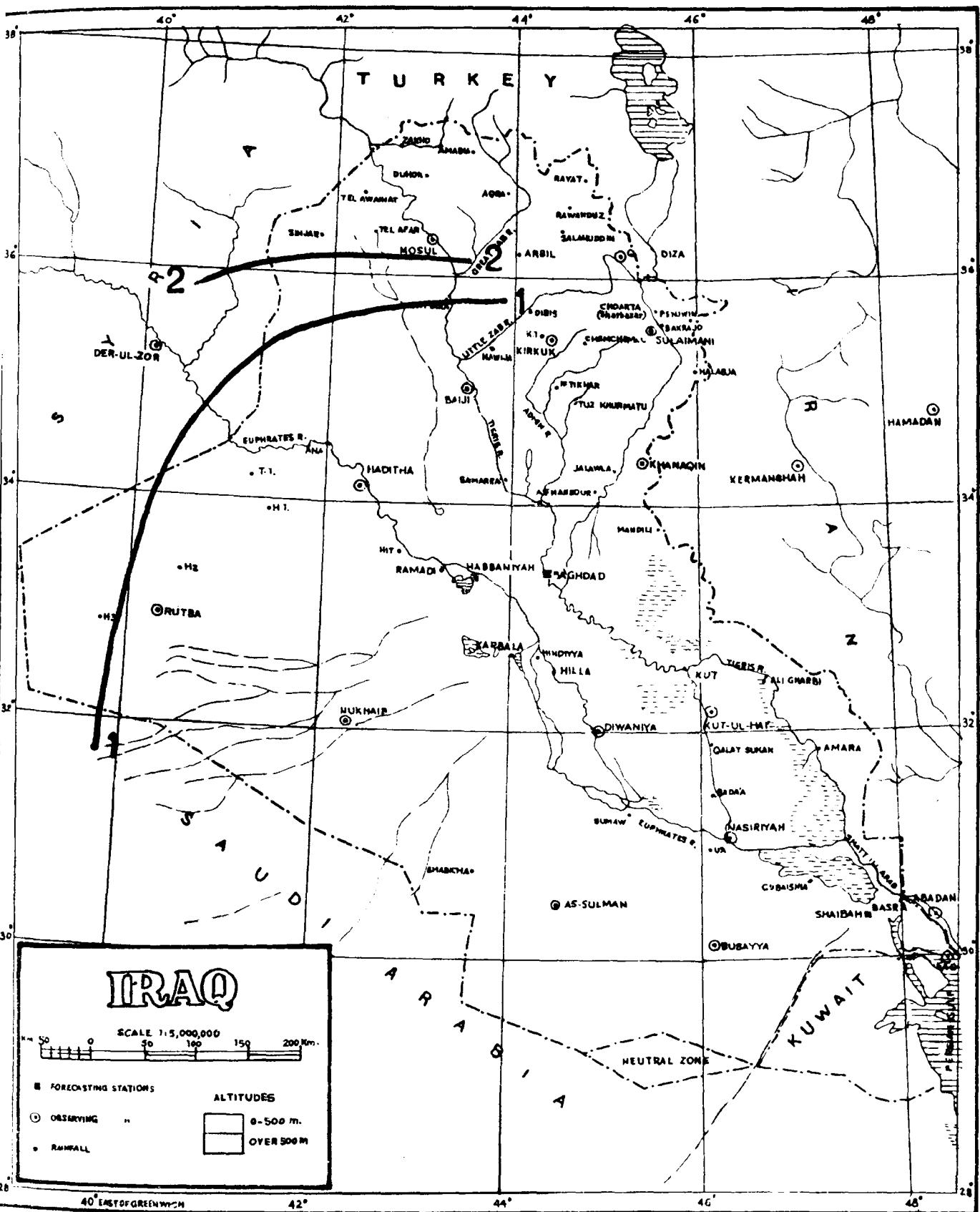
Mean Monthly Number of Days with Minimum Temperature 0 C° or Less
 period of records see page 2/3

MARCH



TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 0 C° or Less
period of records see page 2/3

NOVEMBER

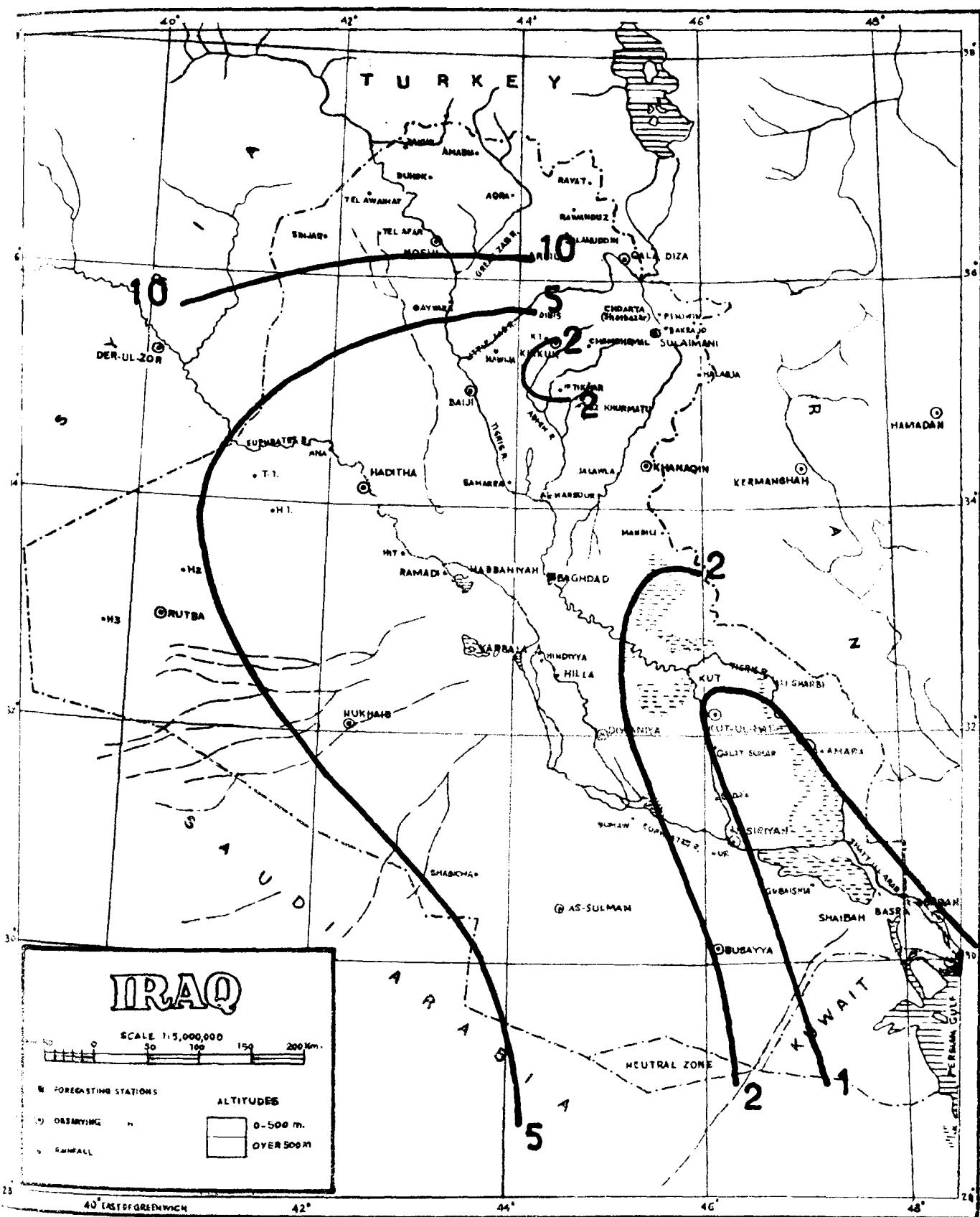


T E M P E R A T U R E

72

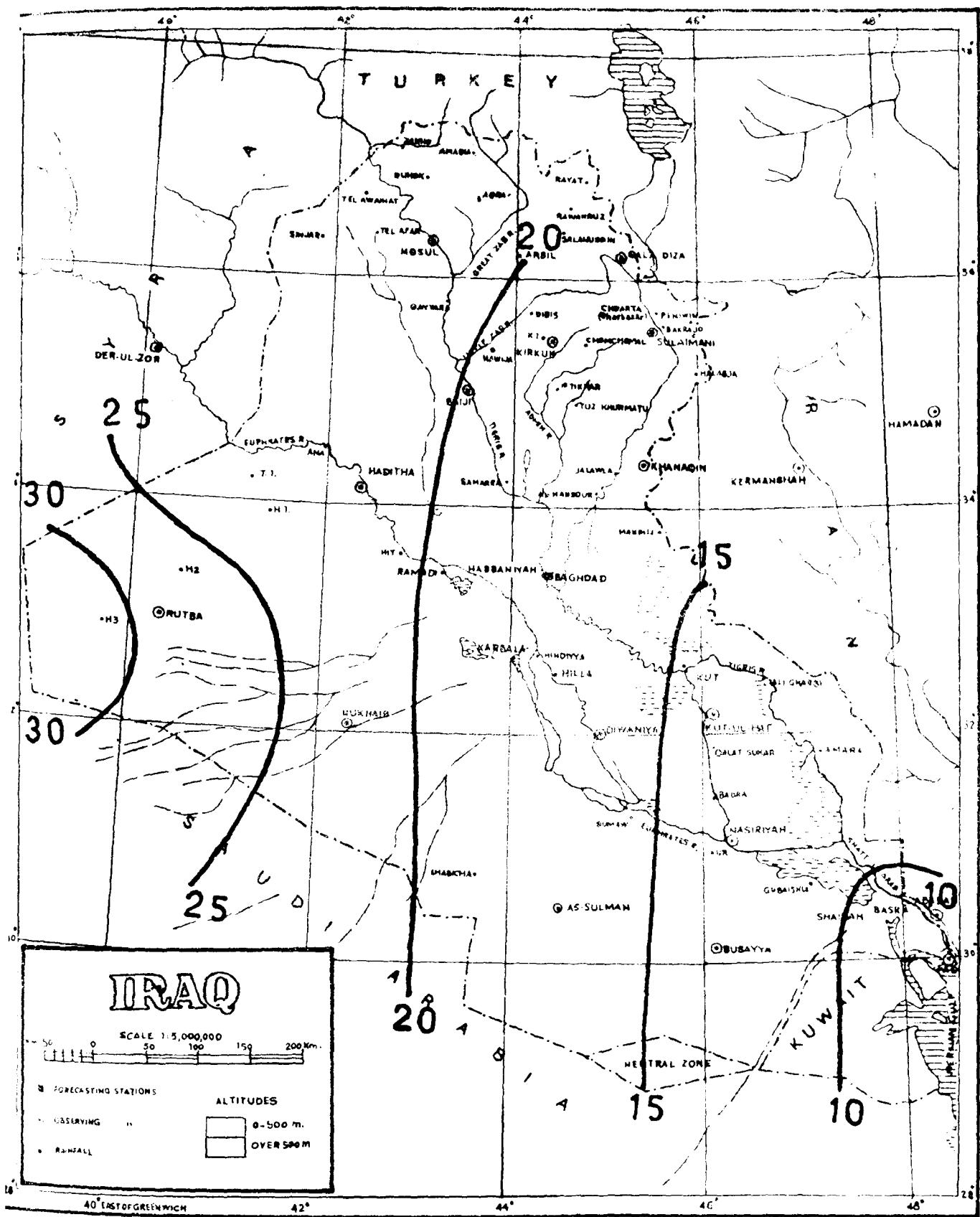
Mean Monthly Number of Days with Minimum Temperature 0°C or Less
period of records see page 2/3

DECEMBER



TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

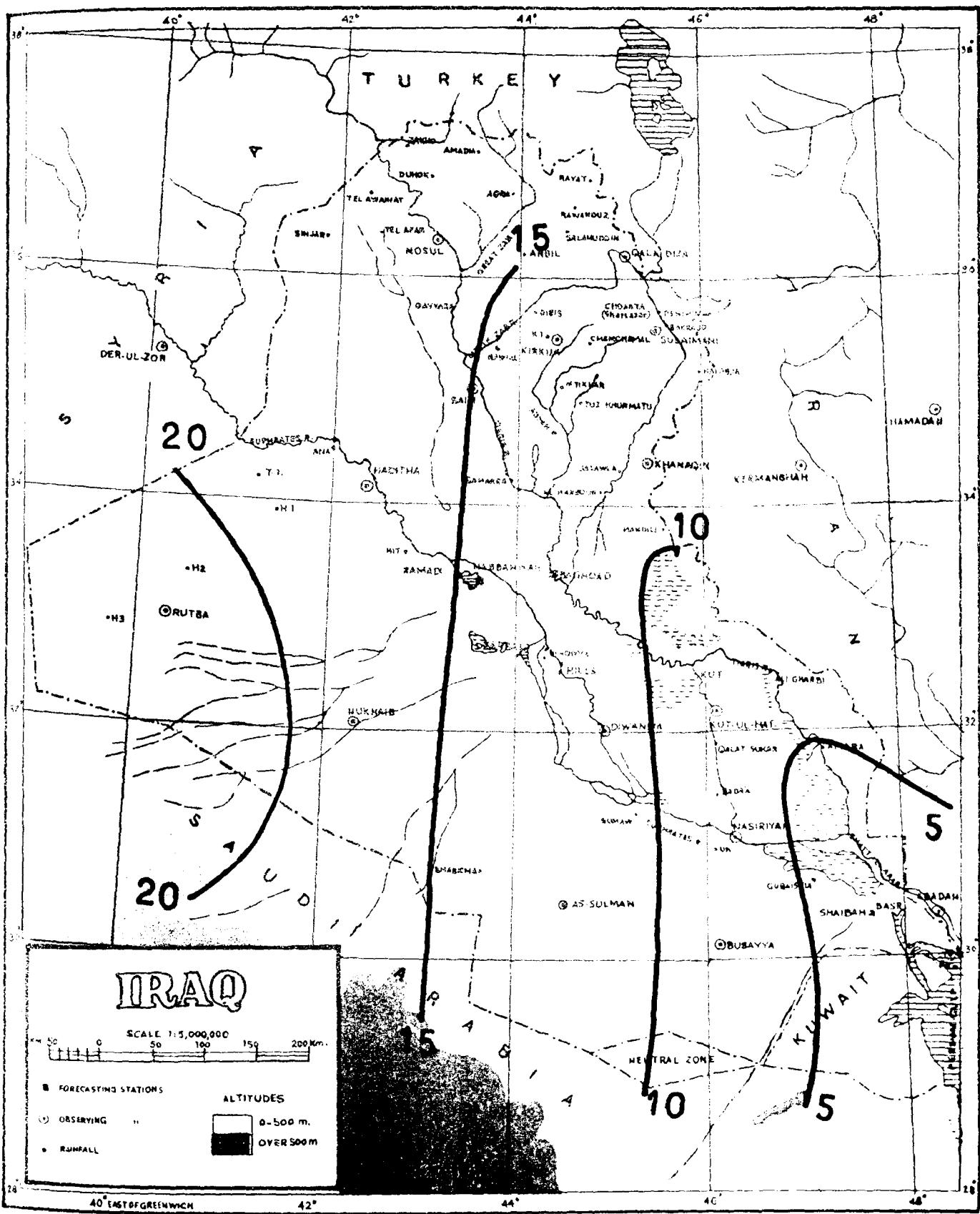
JANUARY



TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

74

FEBRUARY

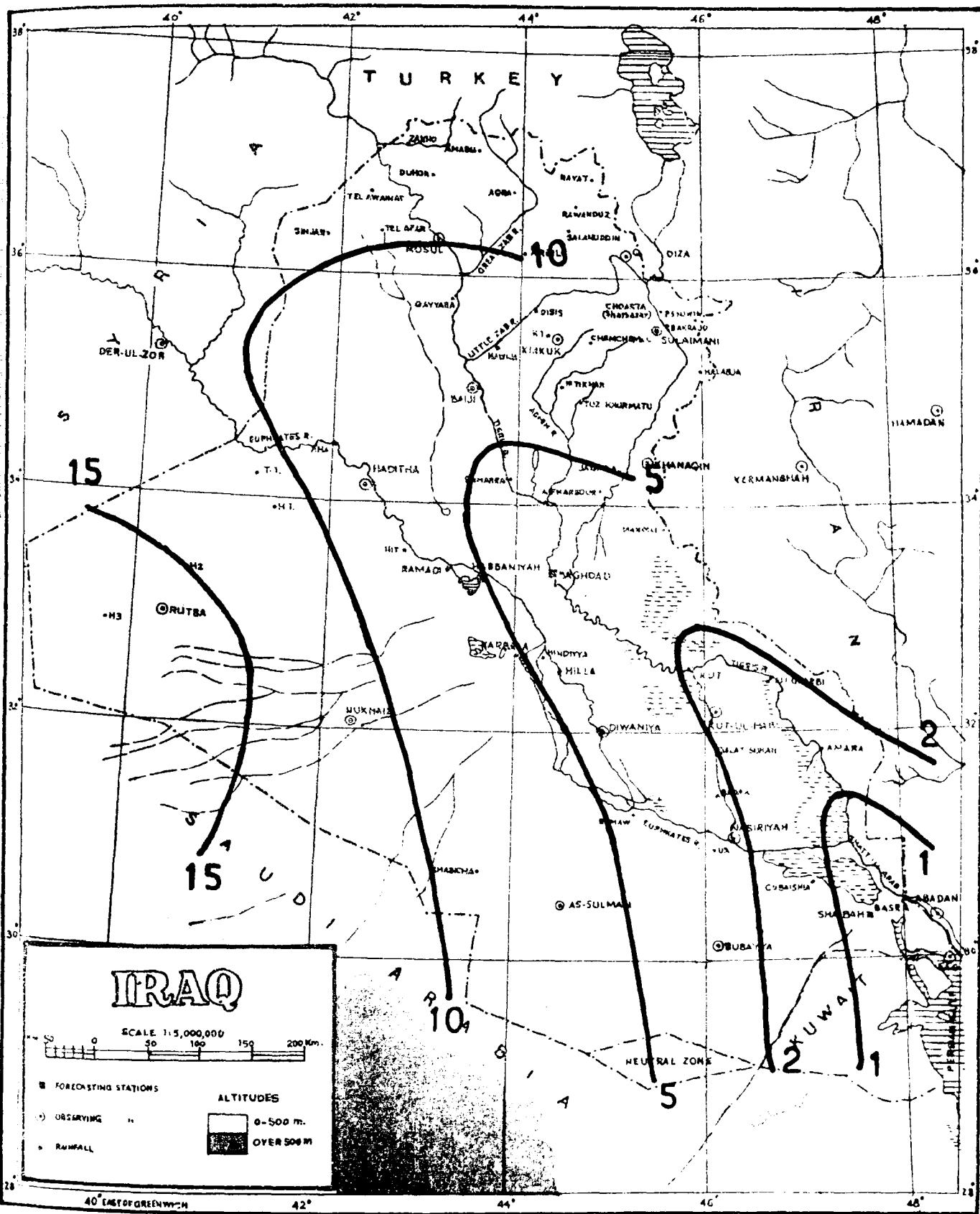


TEMPERATURE

75

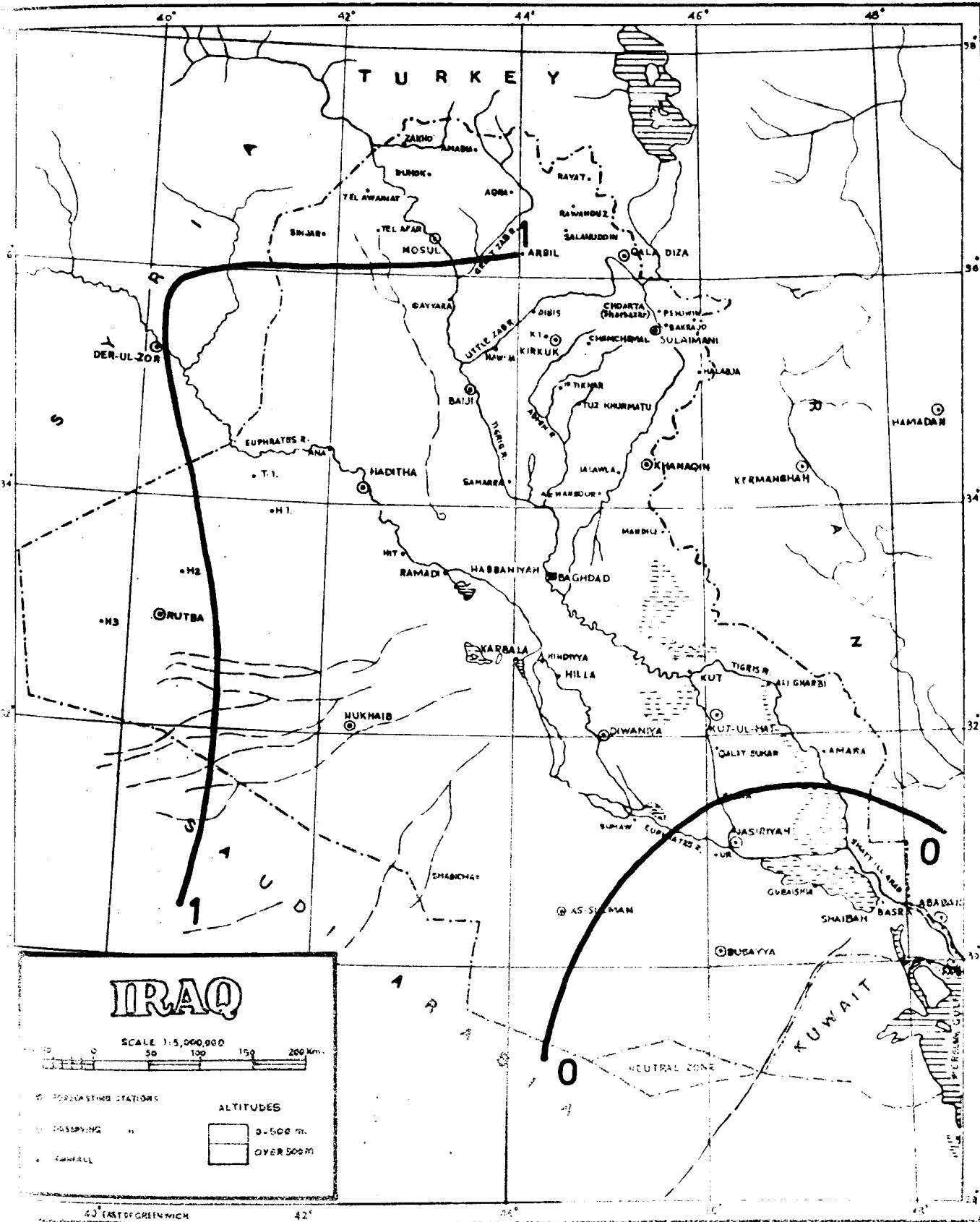
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

MARCH



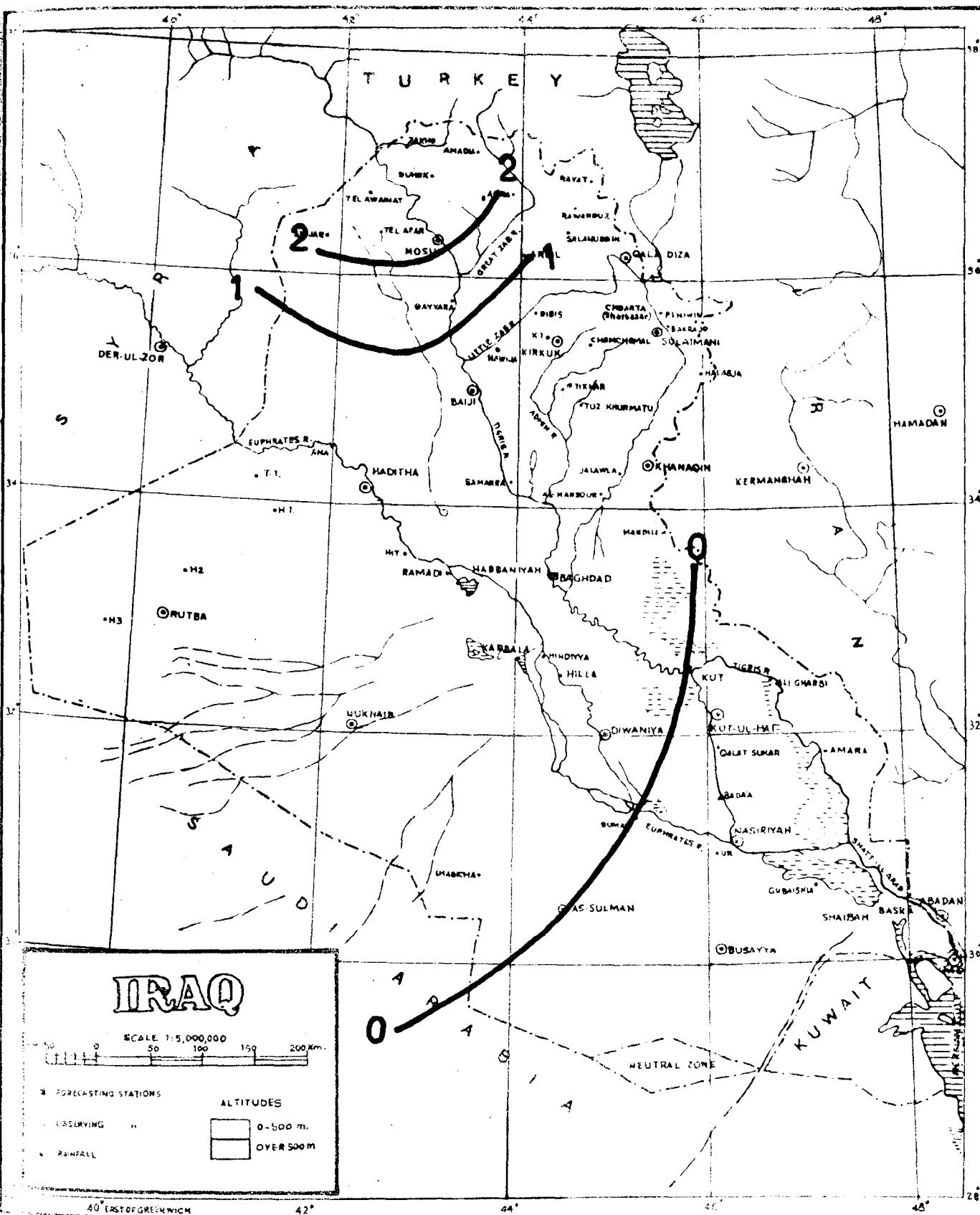
TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

APRIL



TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

OCTOBER



IRAQ

SCALE 1:5,000,000
 50 100 150 200 Km.

FORECASTING STATIONS

ALTITUDES

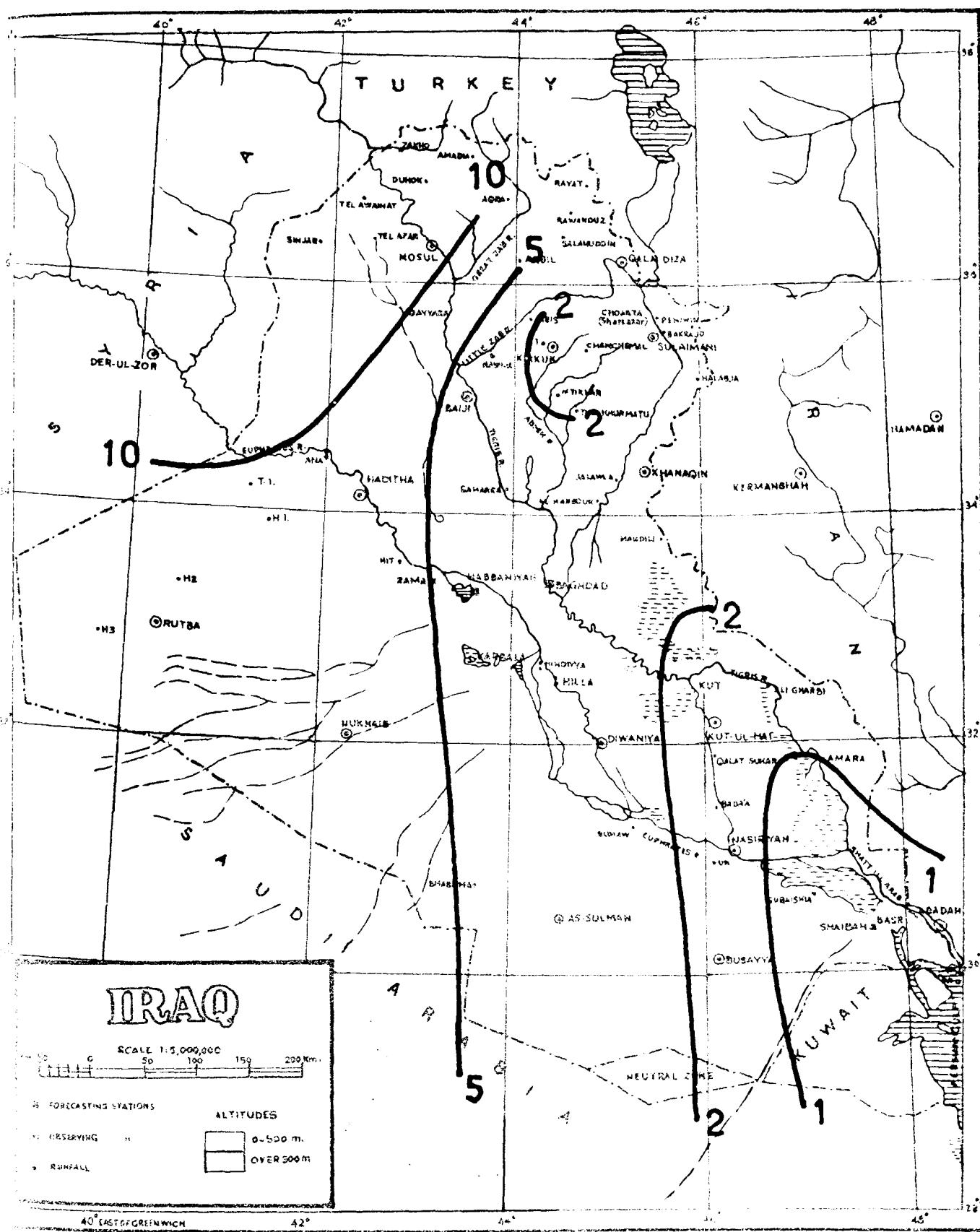
OBSERVING

0-500 m.
OVER 500 m.

RAINFALL

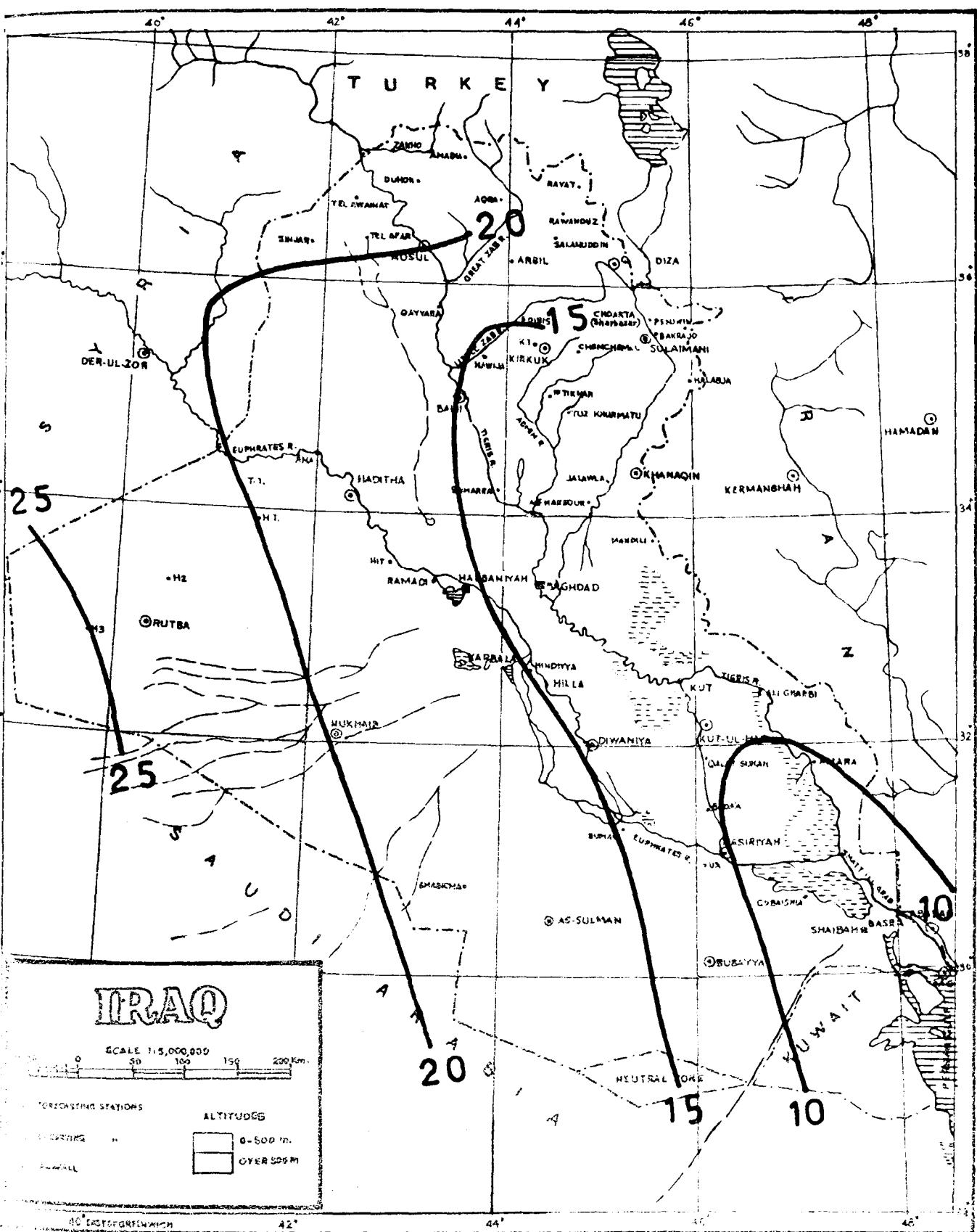
TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
 period of records see page 2/3

NOVEMBER



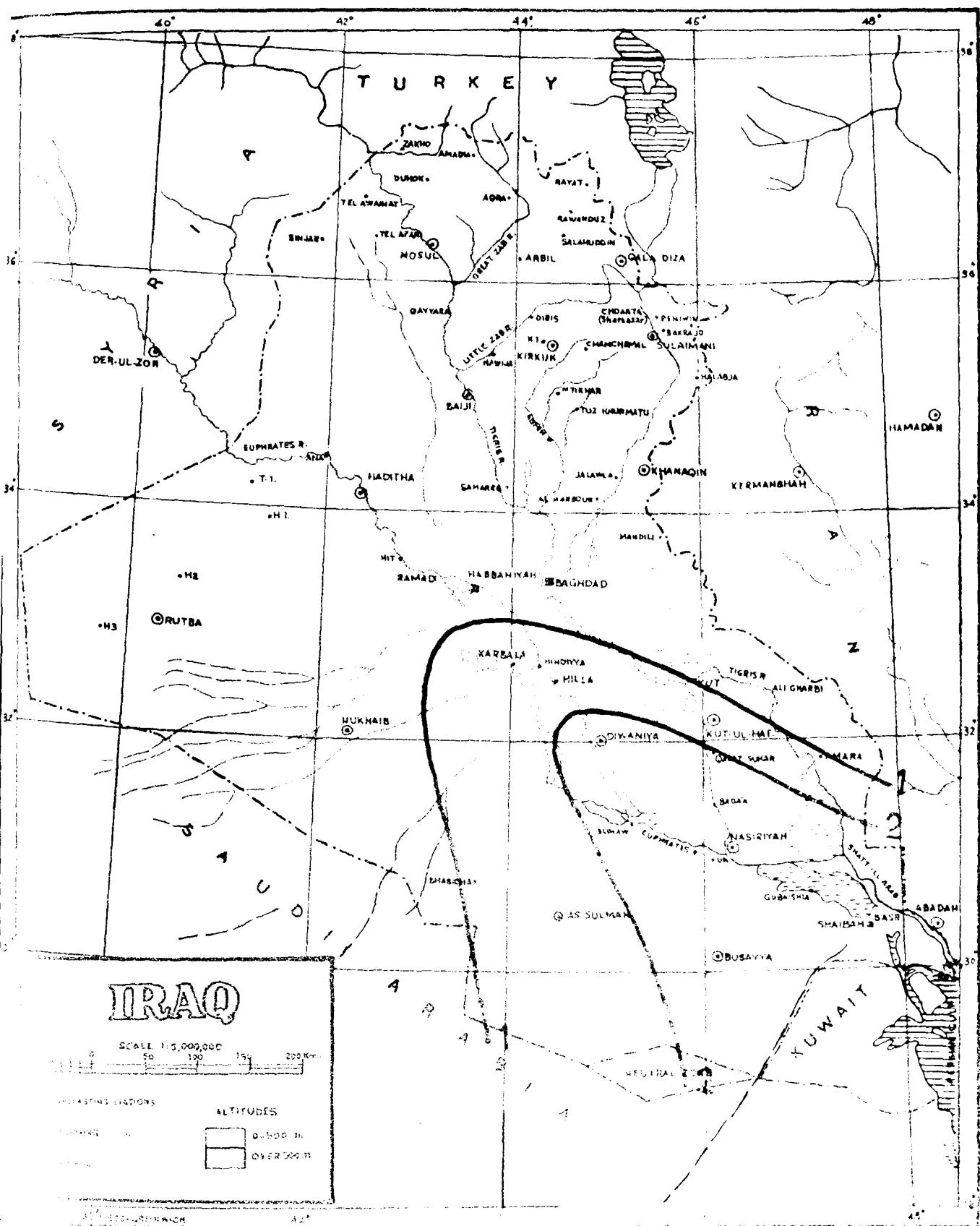
TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
period of records see page 2/3

DECEMBER



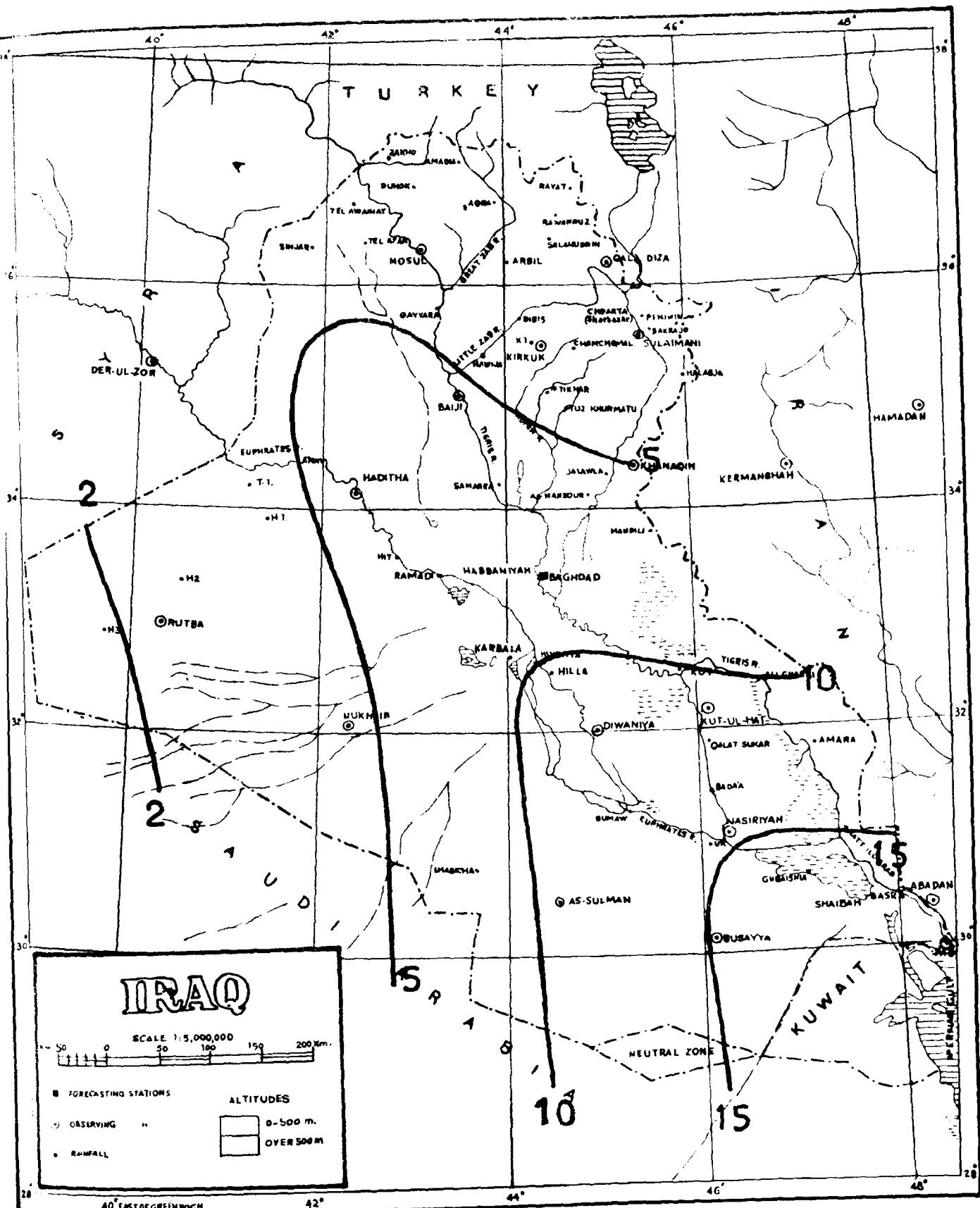
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

FEBRUARY



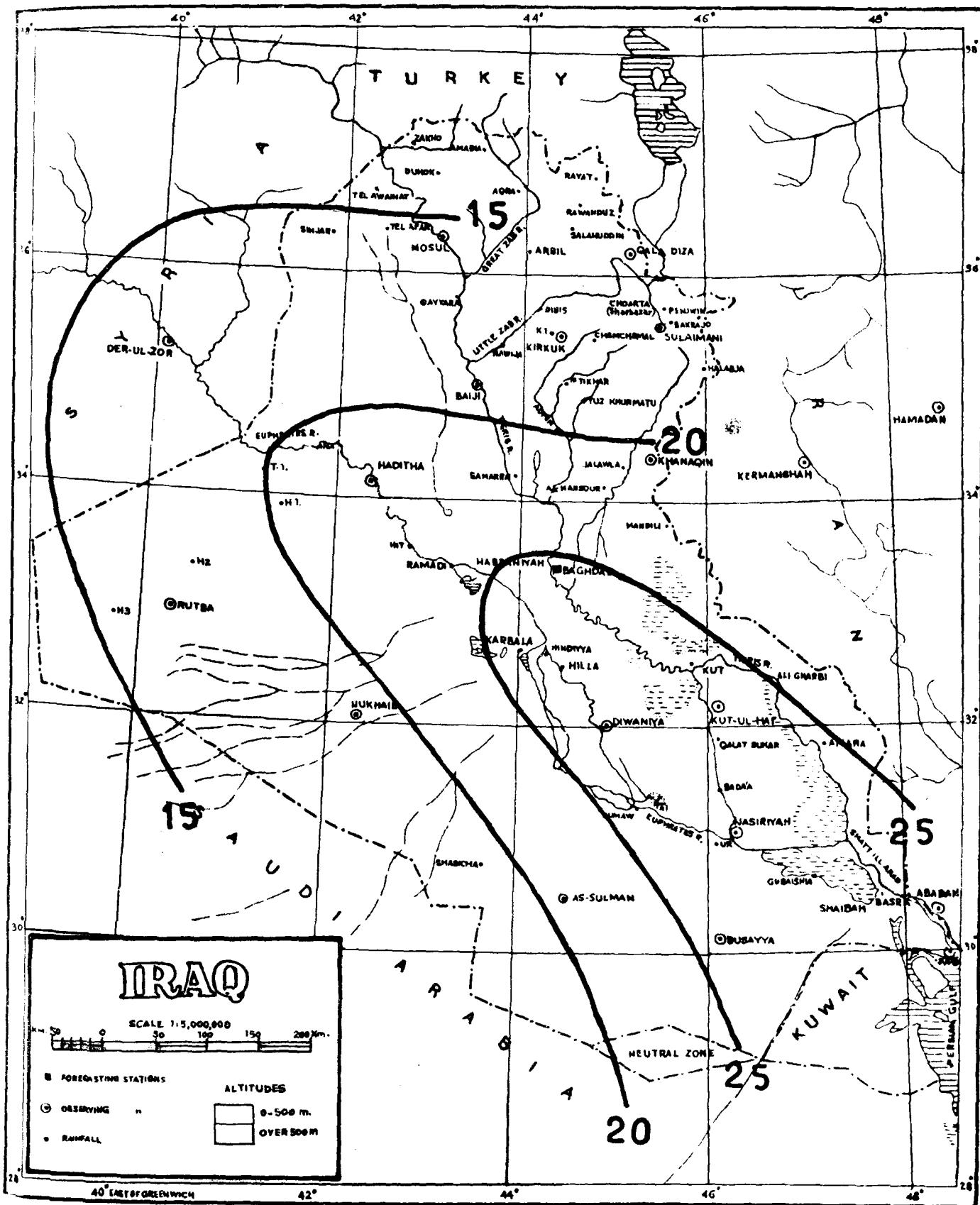
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3

MARCH

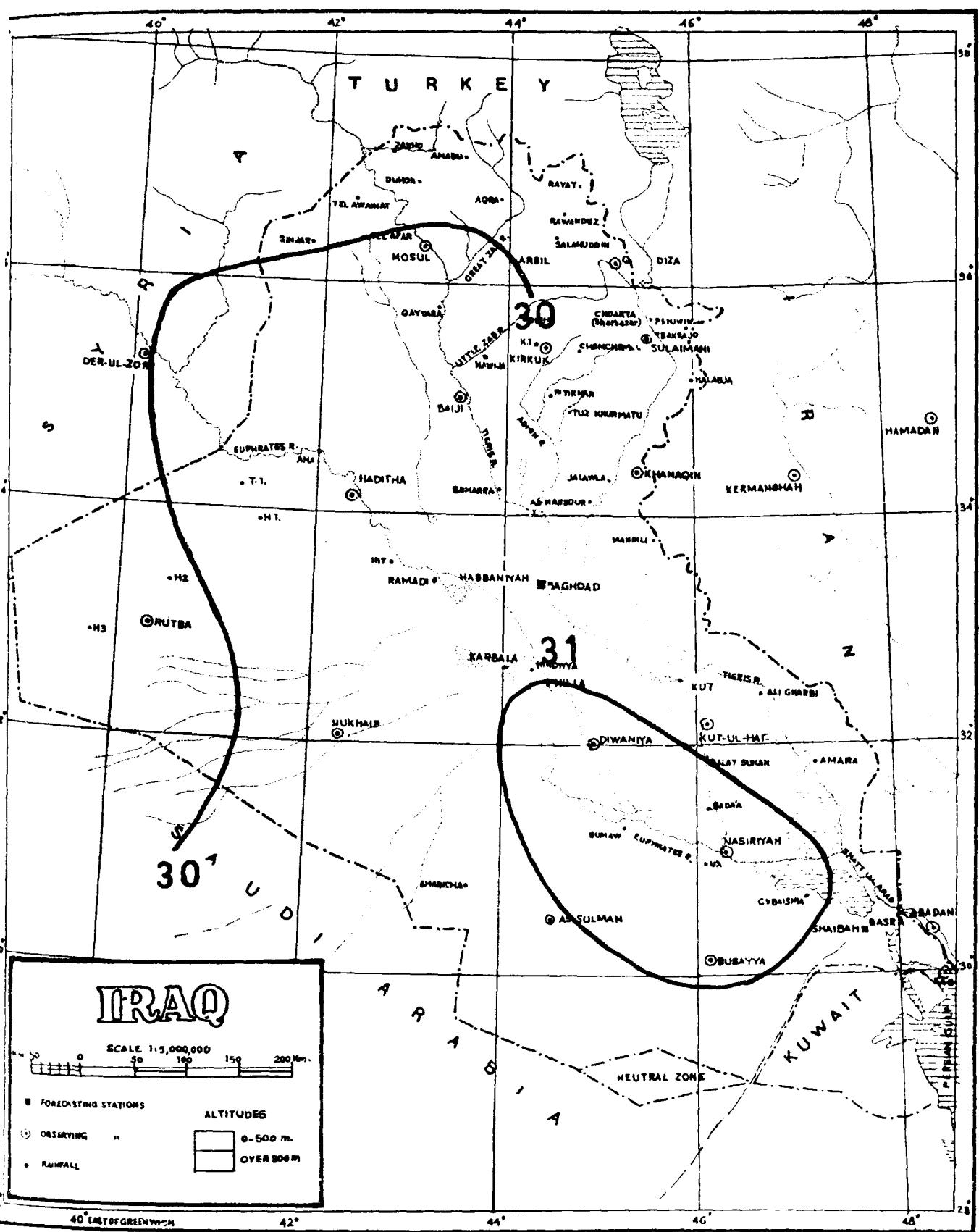


TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

APRIL

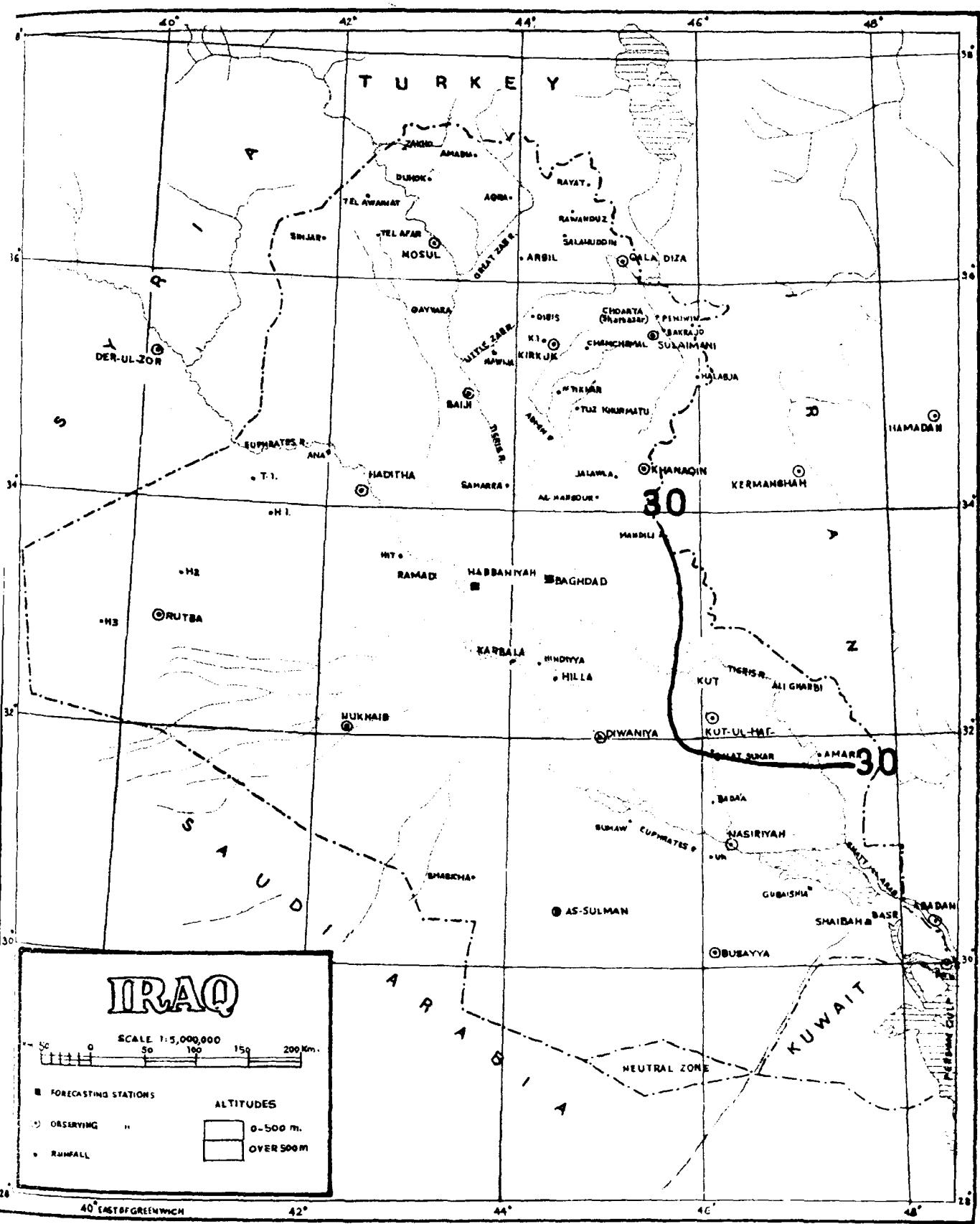


MAY



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

JUNE

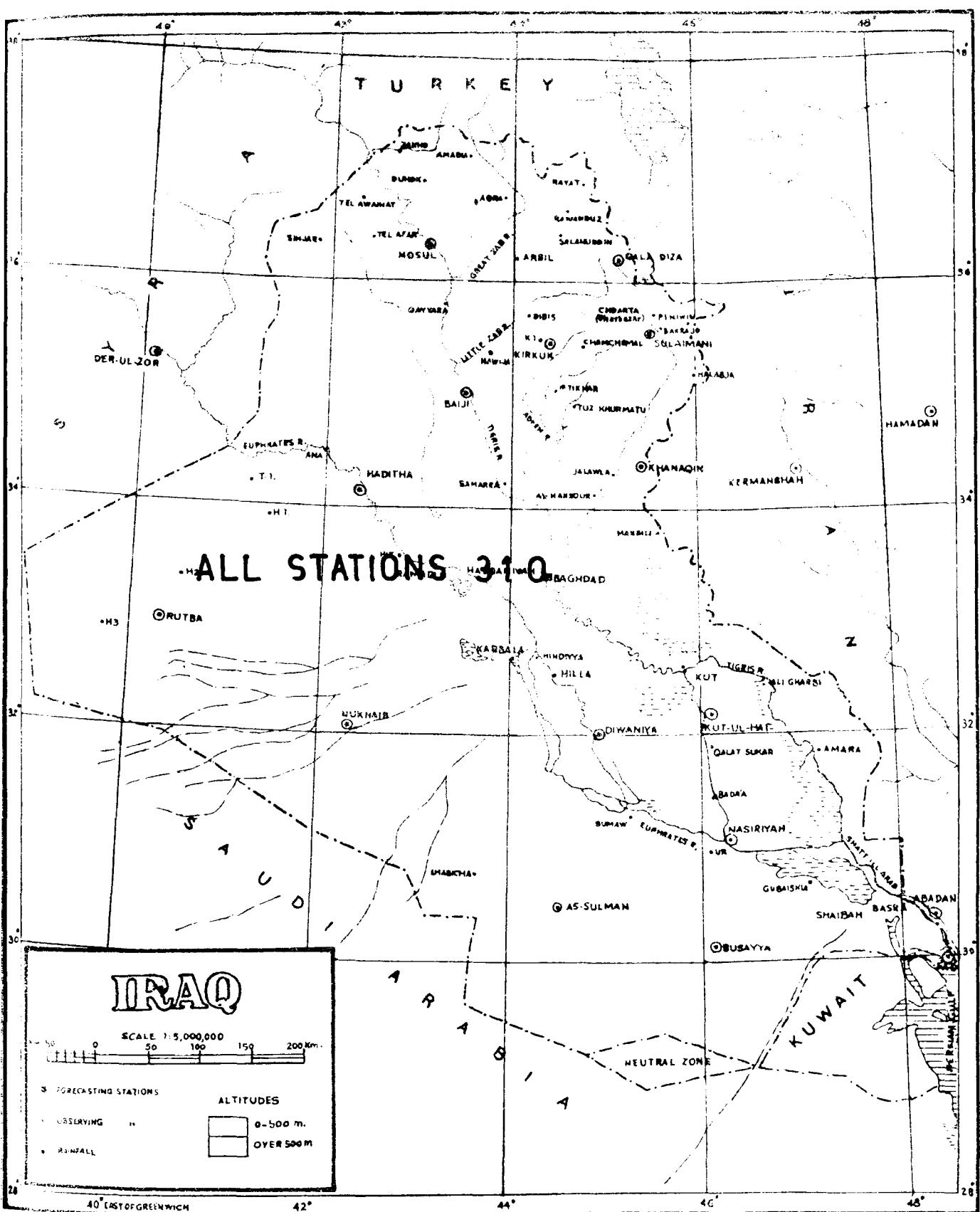


TEMPERATURE

85

Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

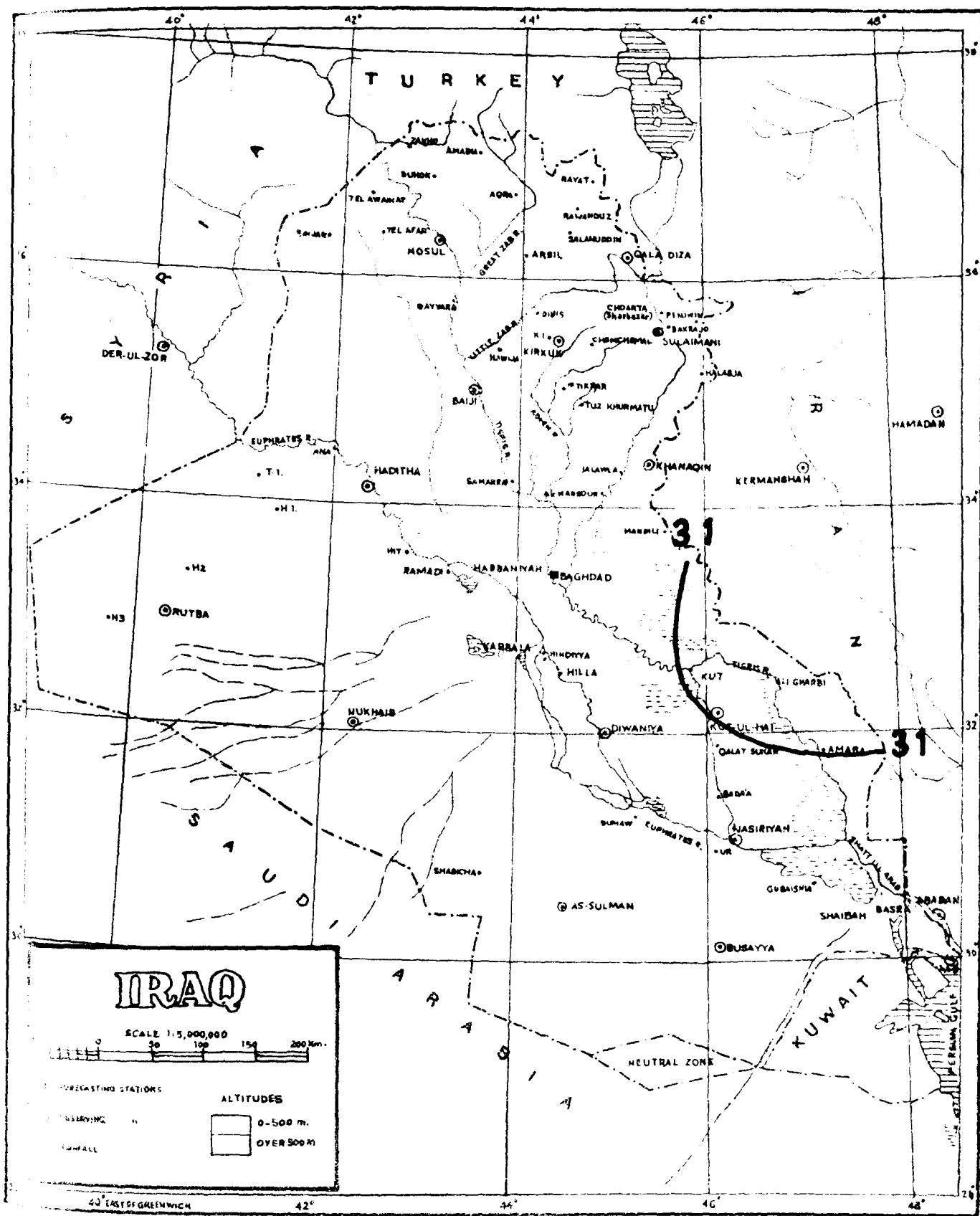
JULY



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3

86

AUGUST

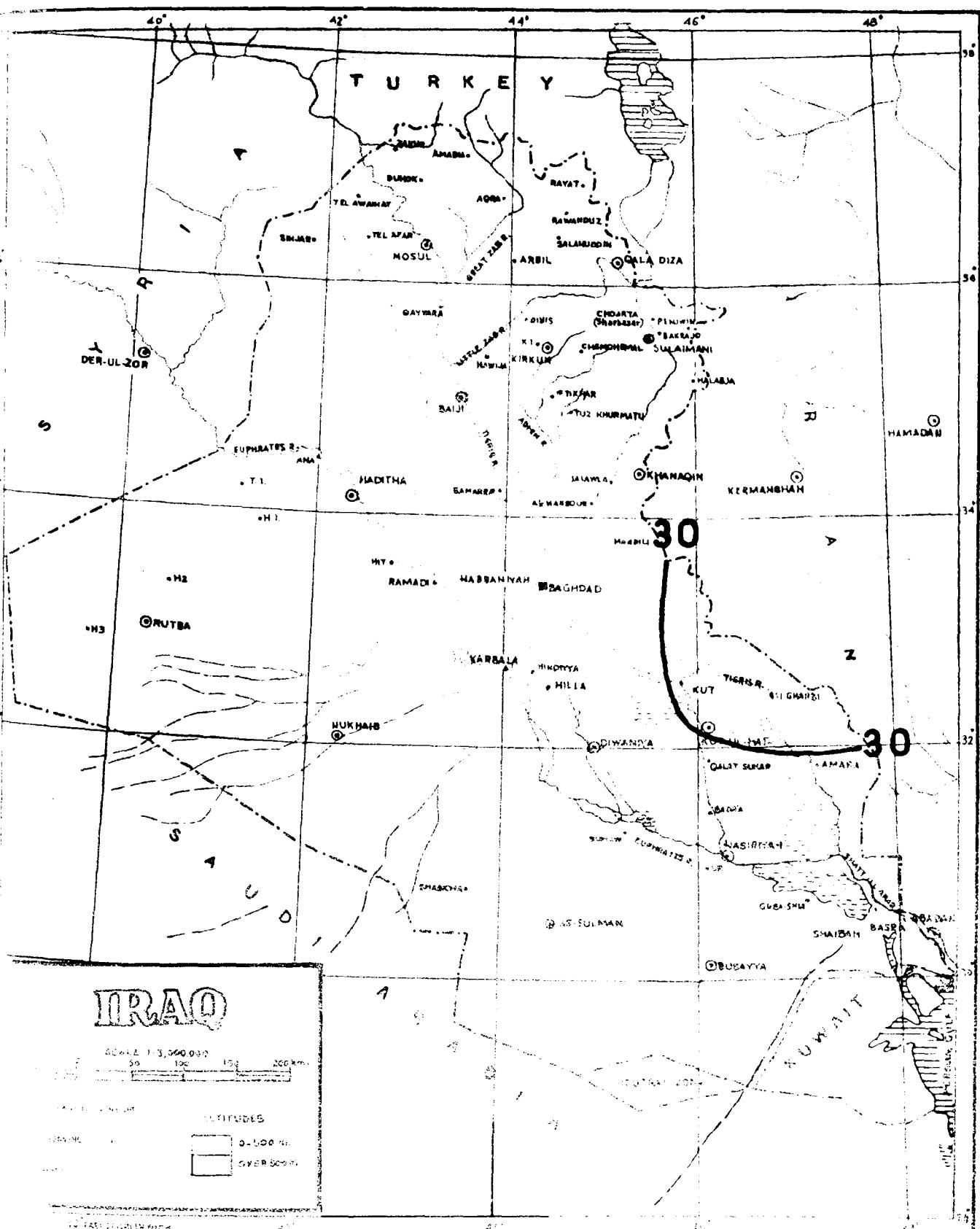


TEMPERATURE

87

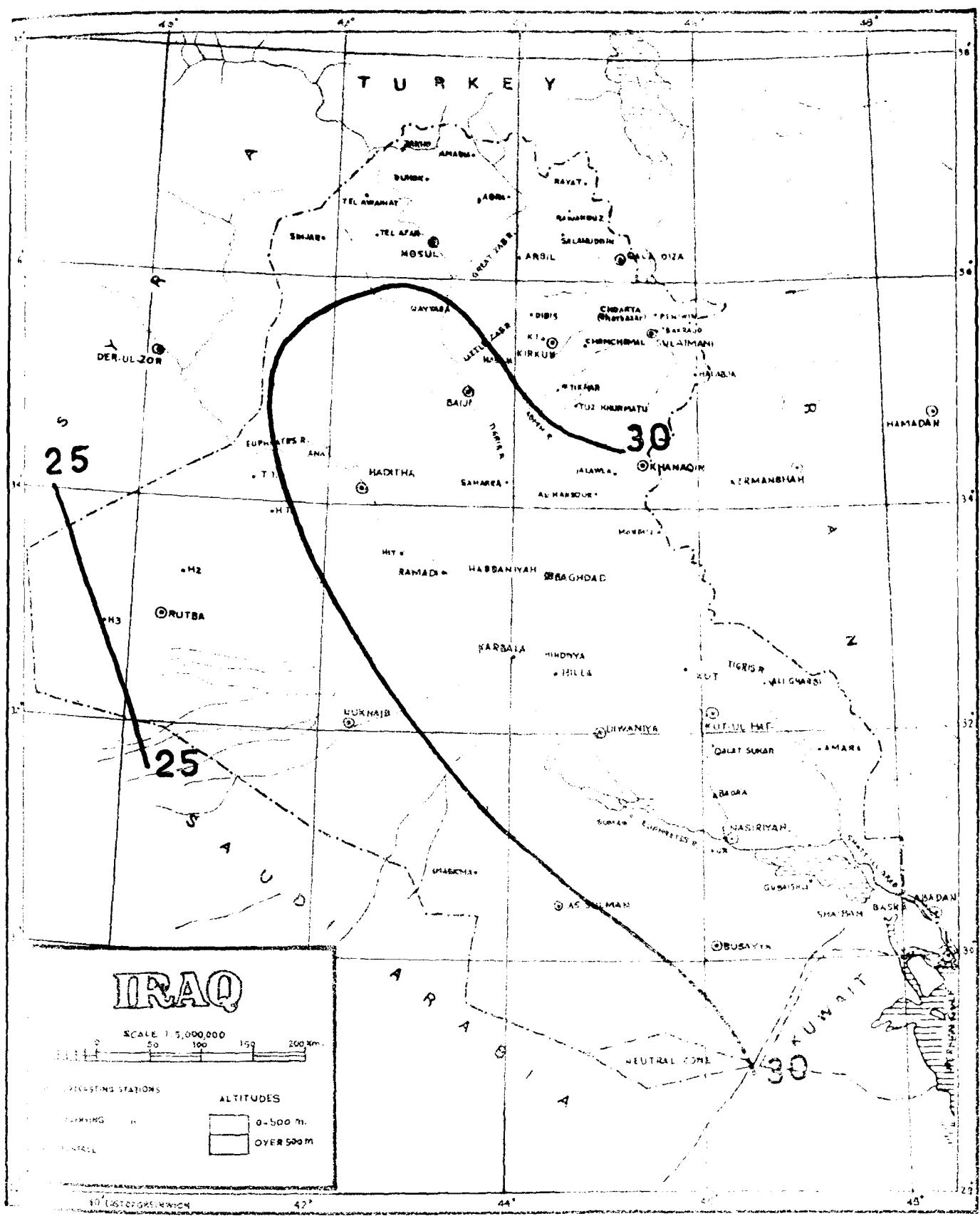
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

SEPTEMBER



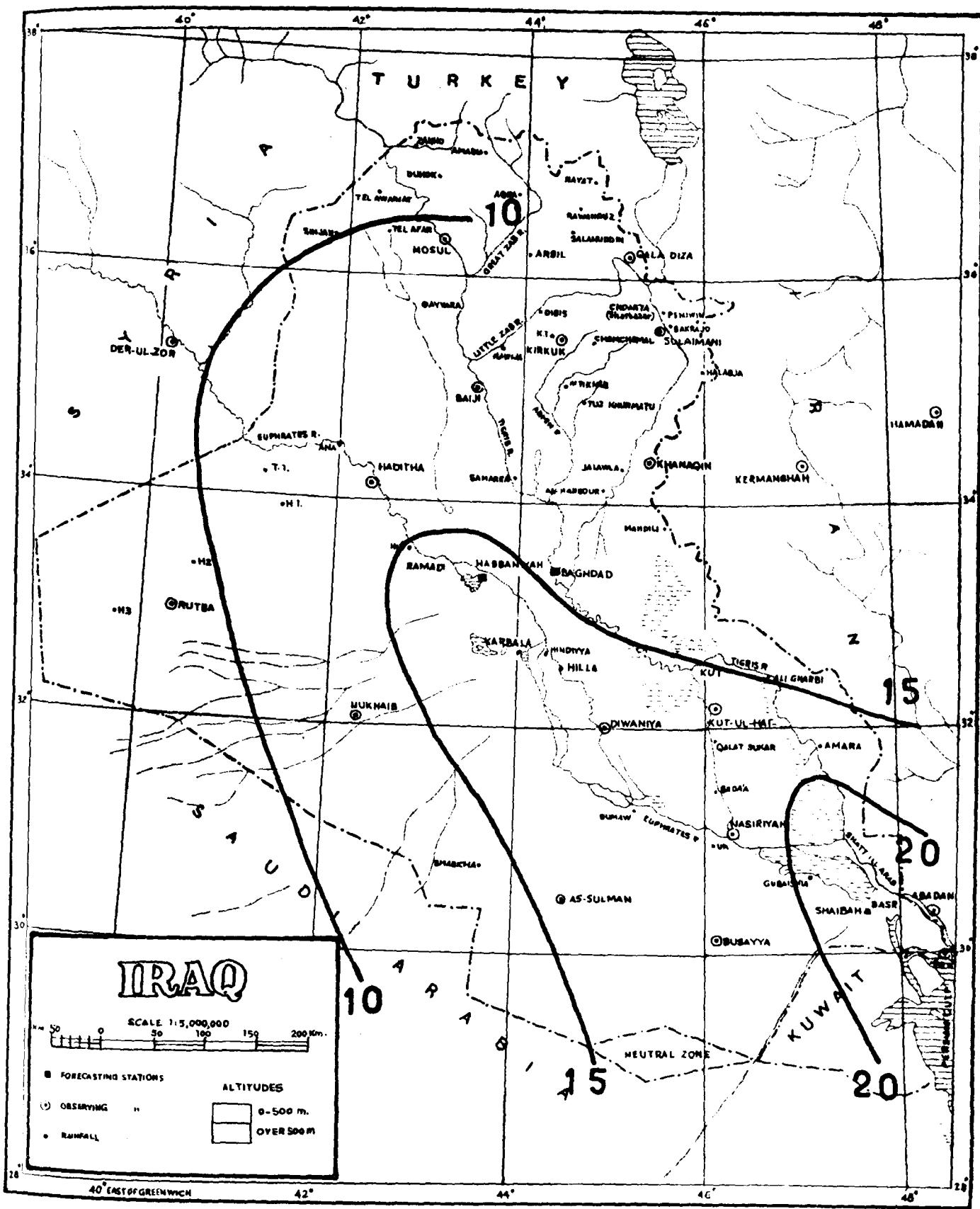
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

OCTOBER



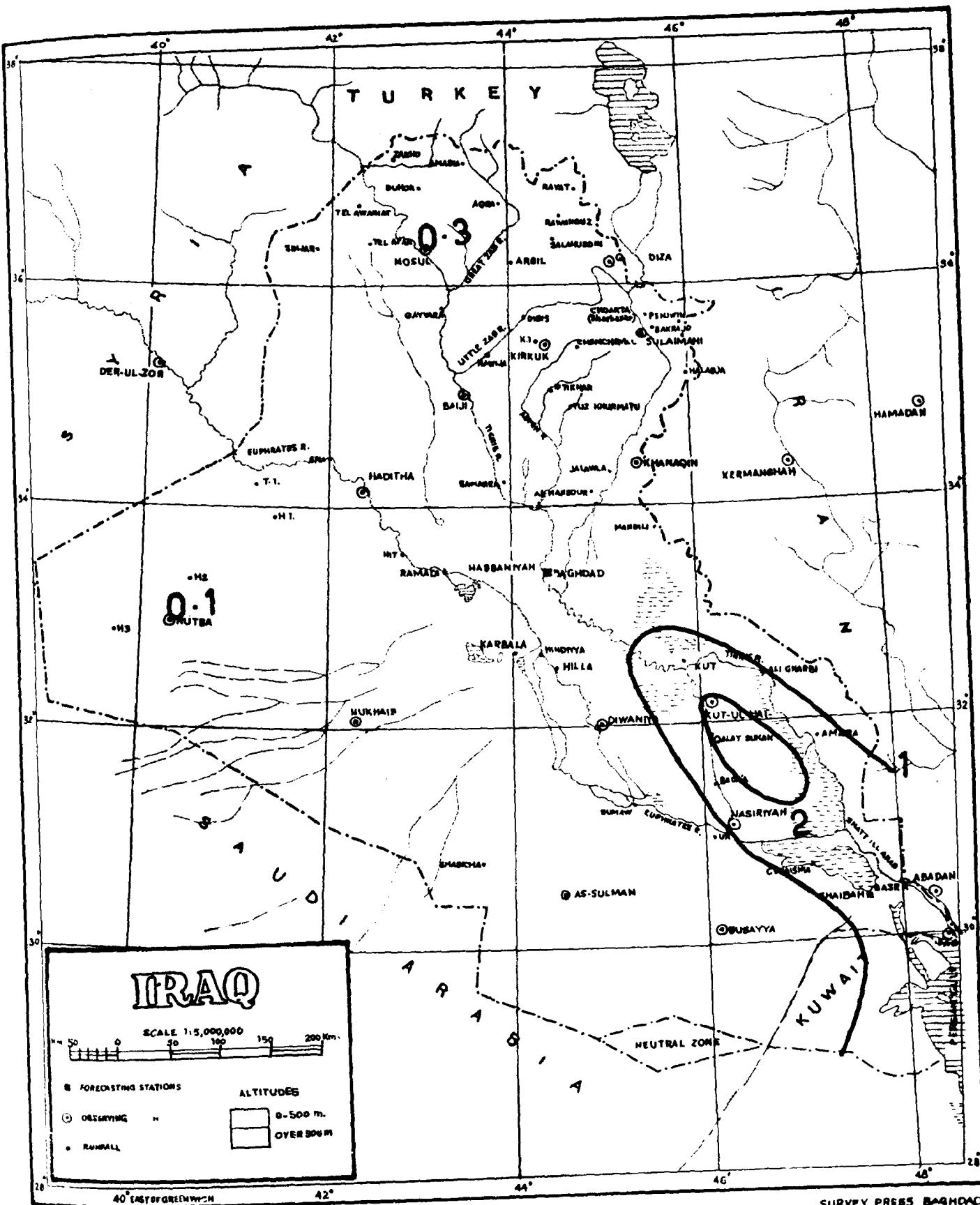
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

NOVEMBER



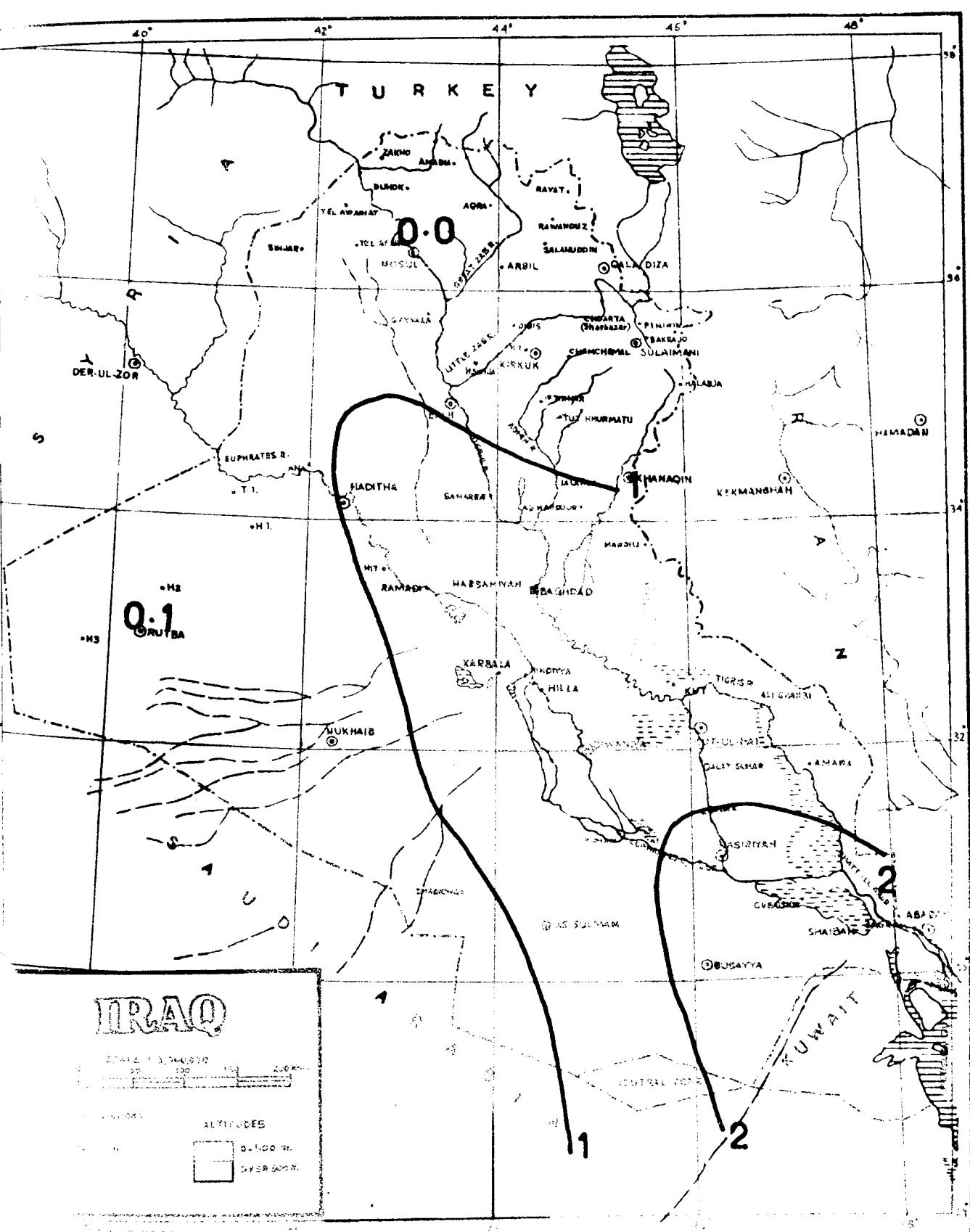
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3

DECEMBER



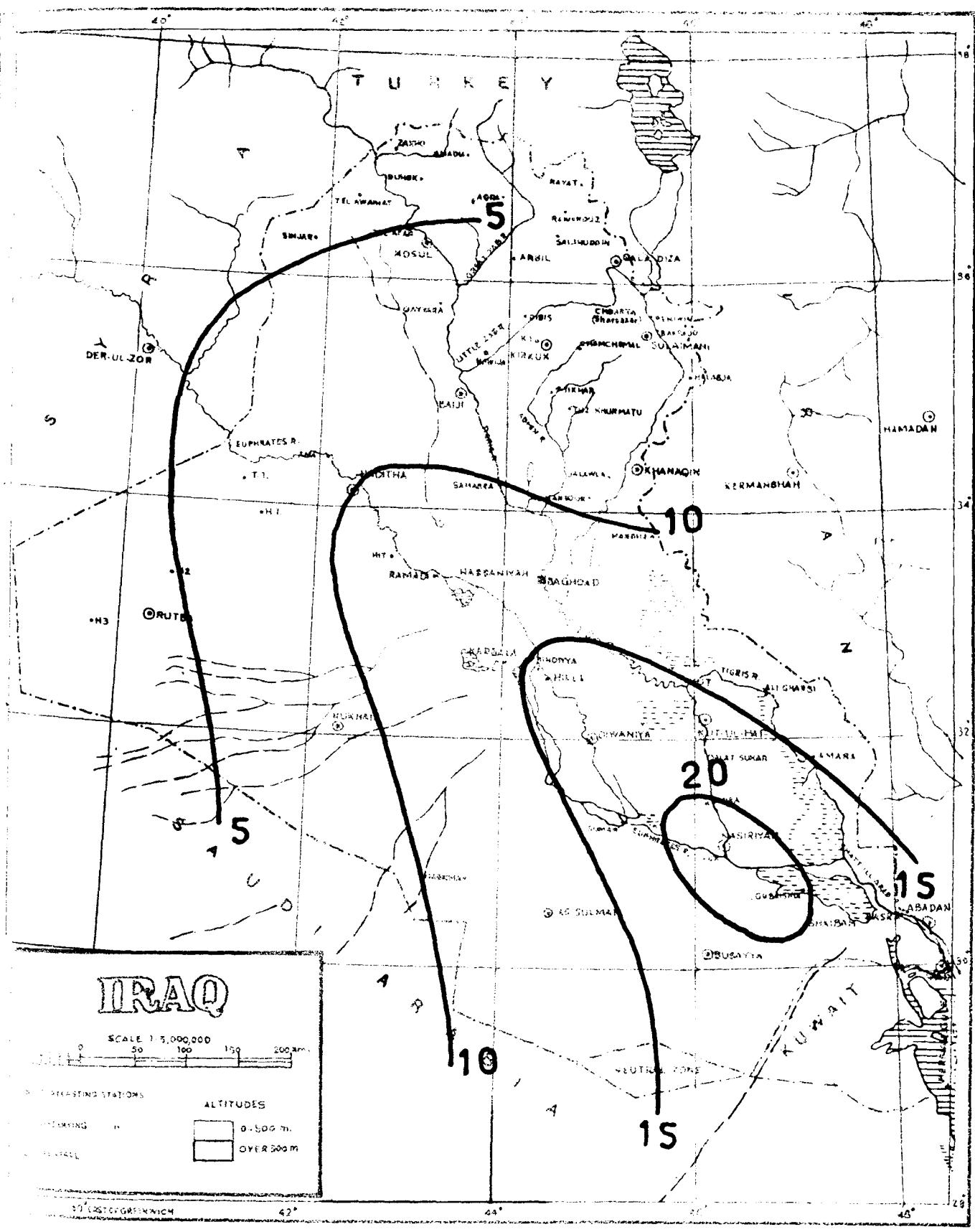
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3

MARCH



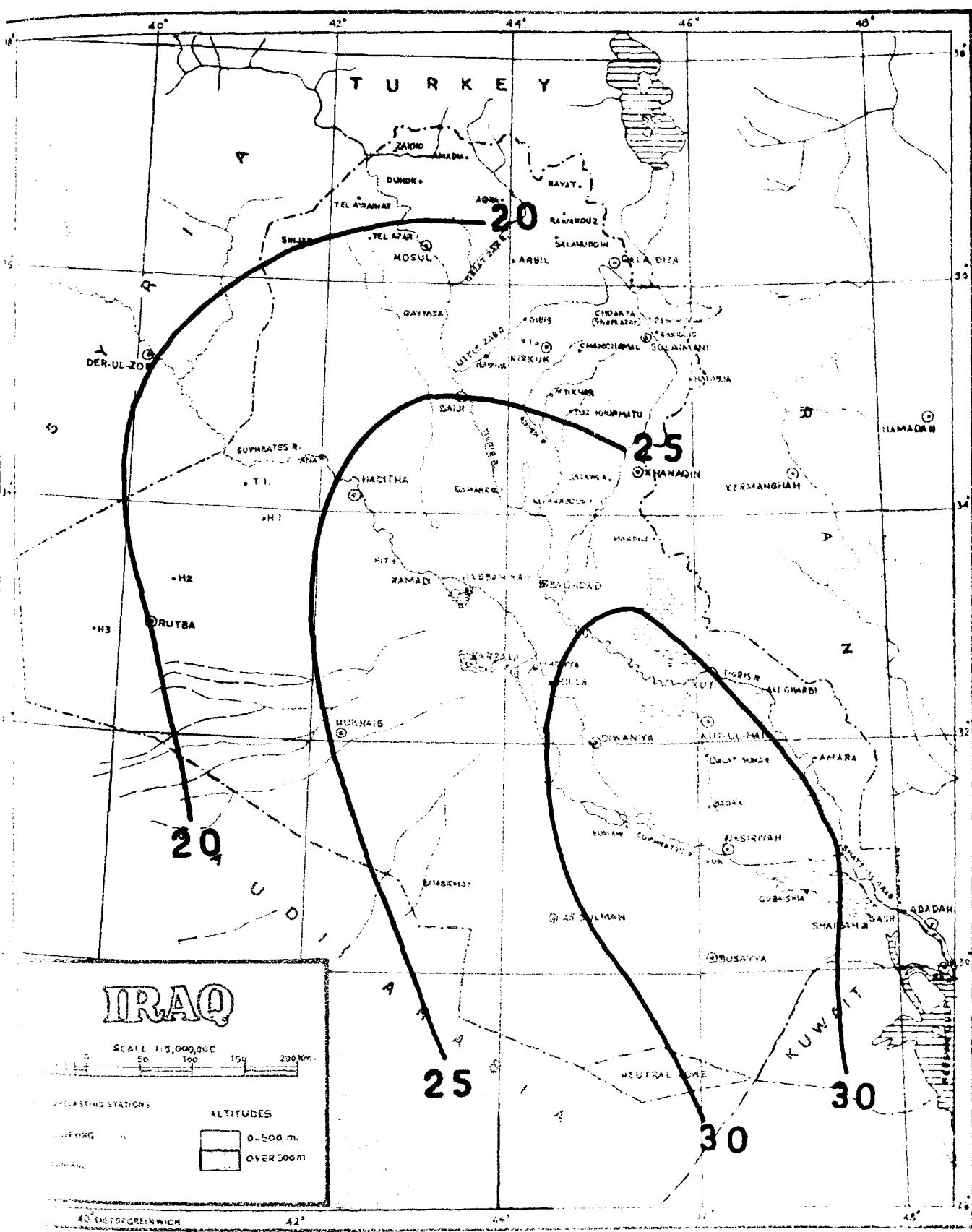
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
period of records see page 2/3

APRIL



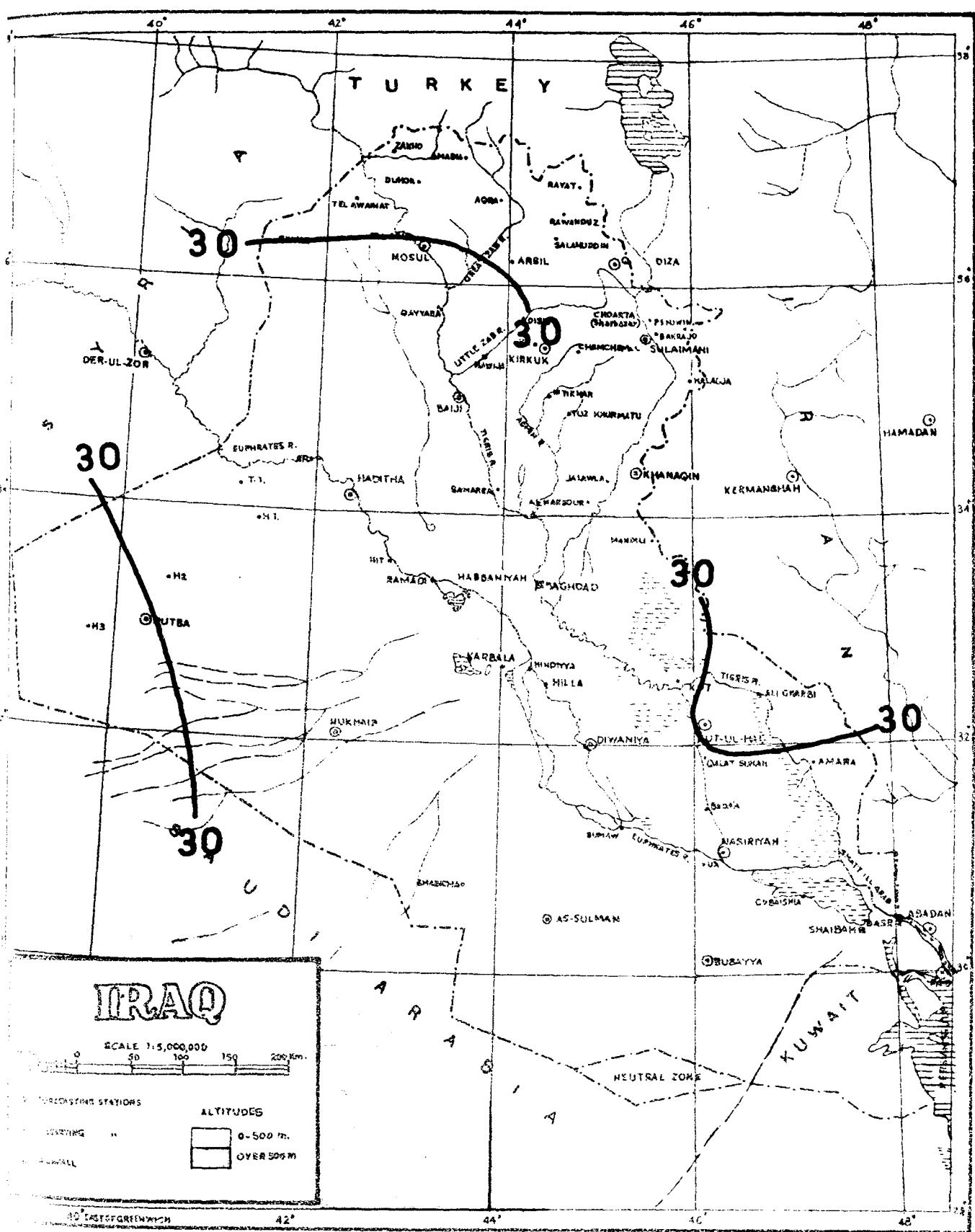
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 30 °C or More
period of records see page 2/3

MAY

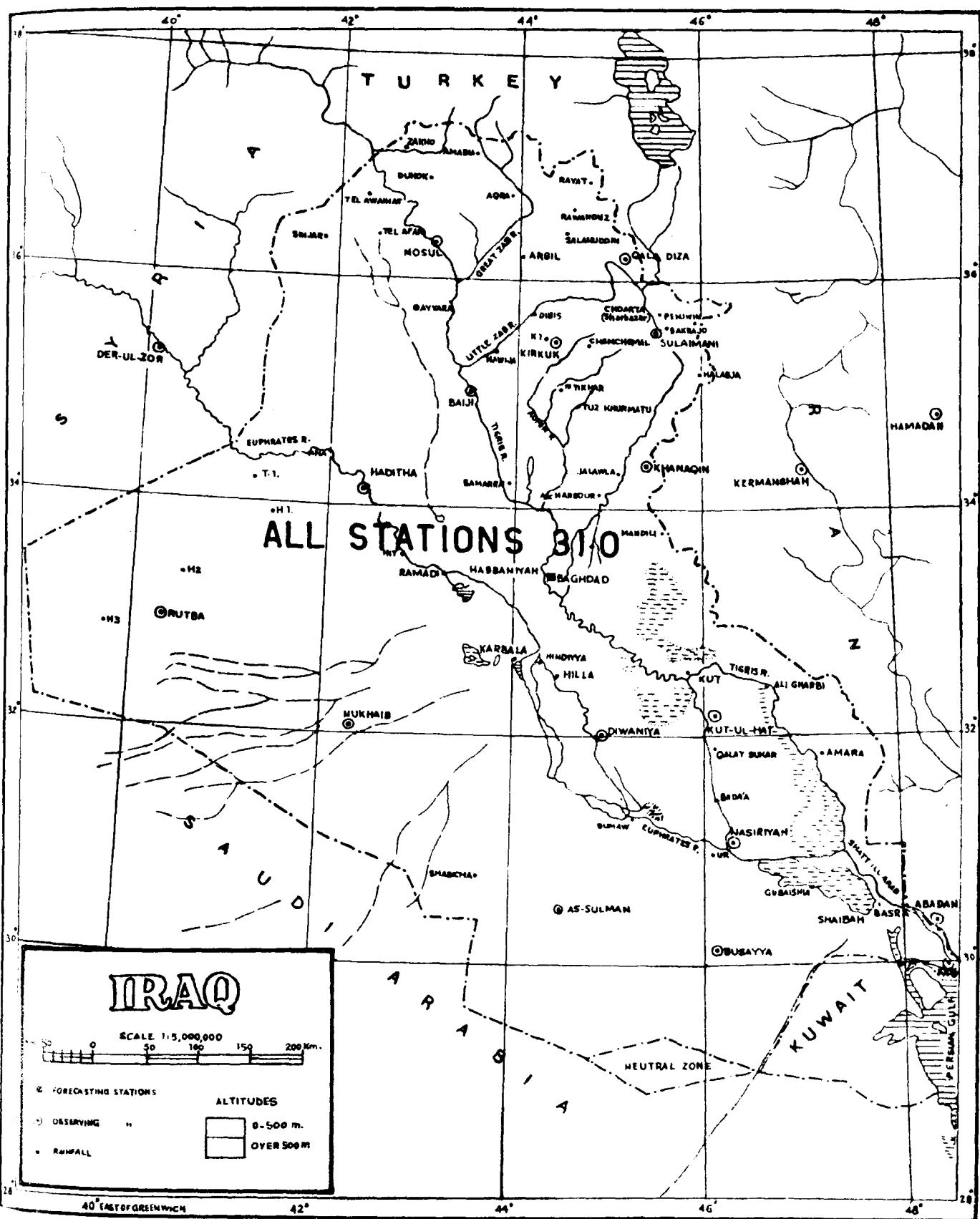


TEMPERATURE
 Mean Monthly Number of Days with Maximum Temperature 30°C or More
 period of records see page 2/3

JUNE

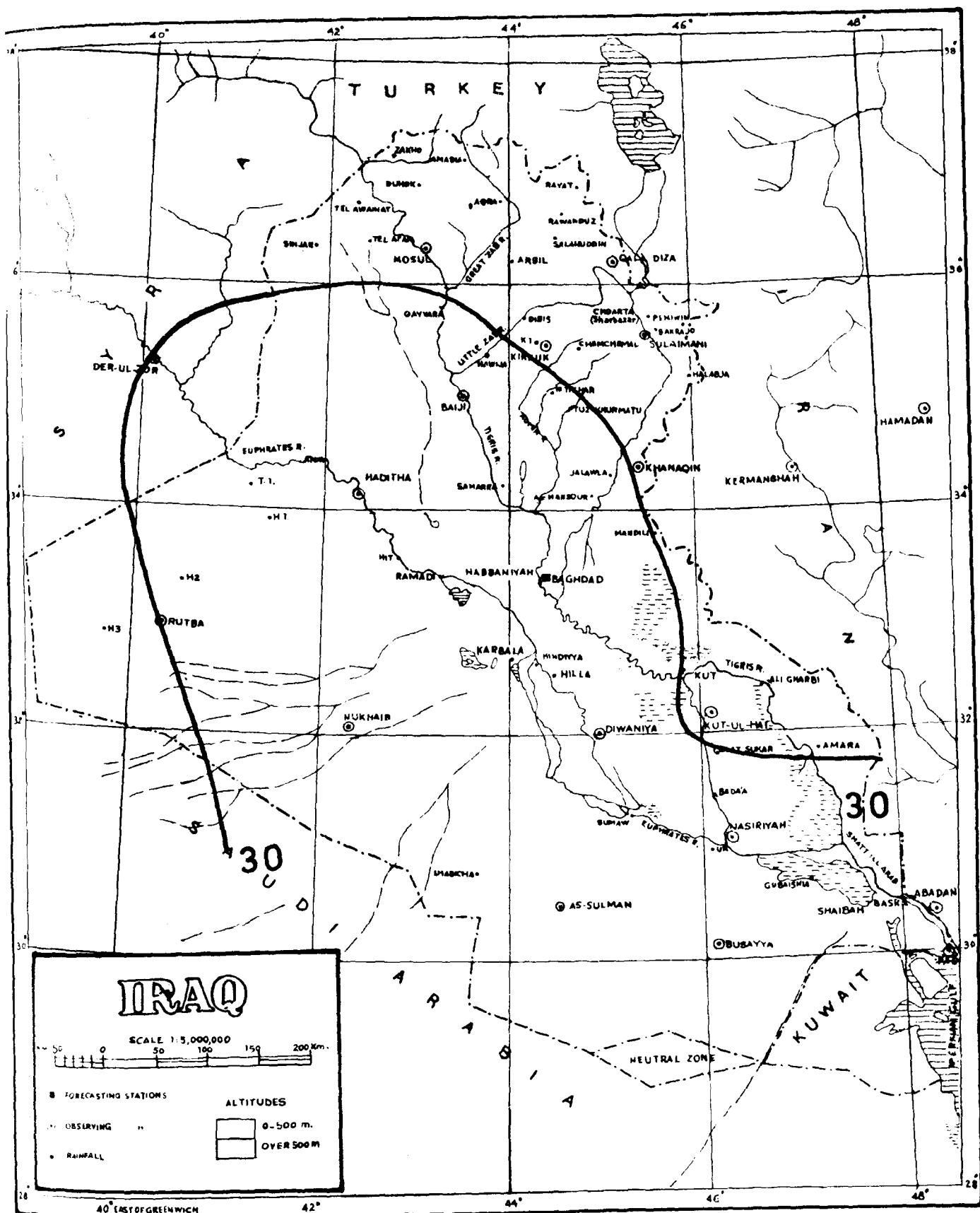


JULY AUGUST



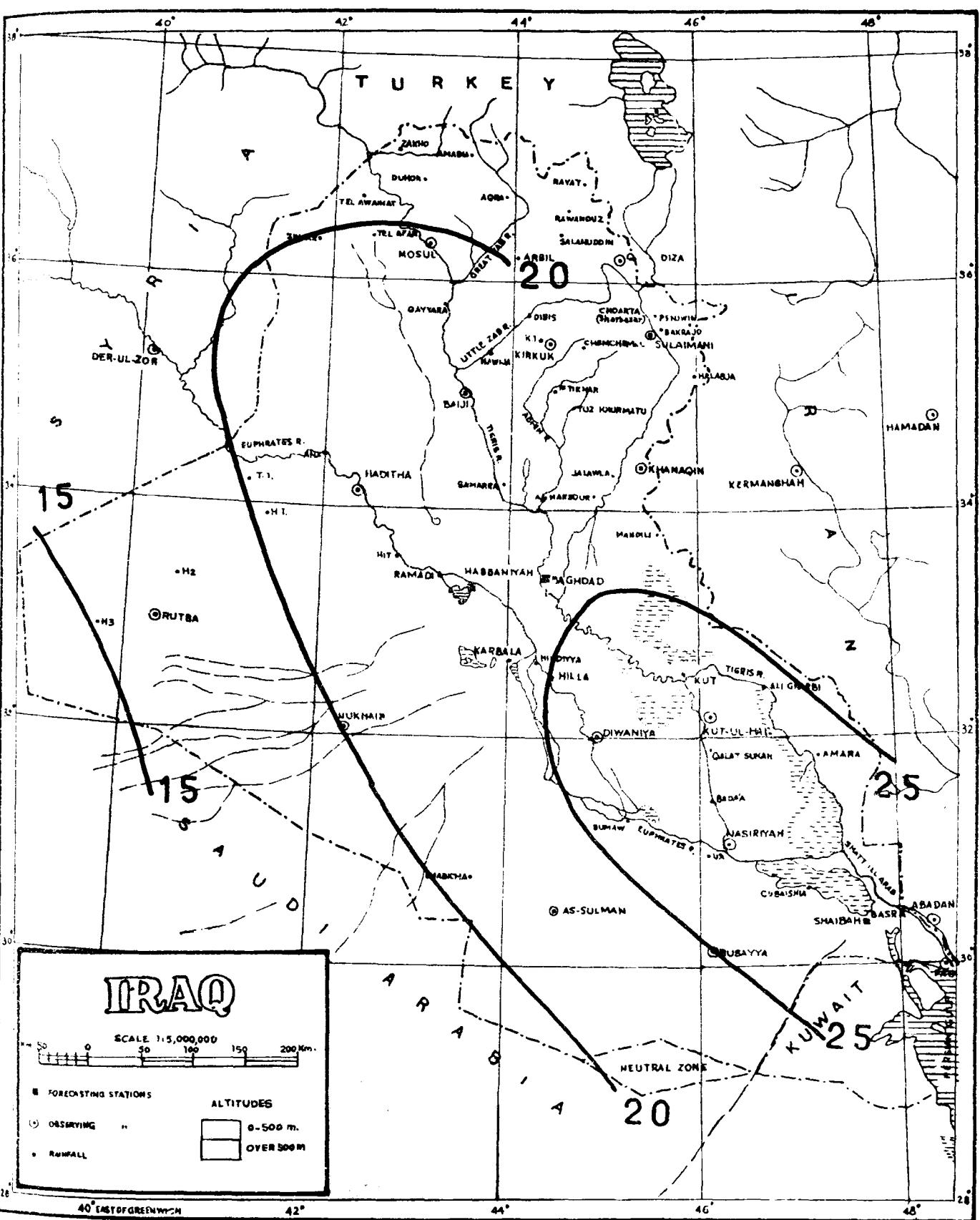
T E M P E R A T U R E
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
period of records see page 2/3

96
SEPTEMBER



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
period of records see page 2/3

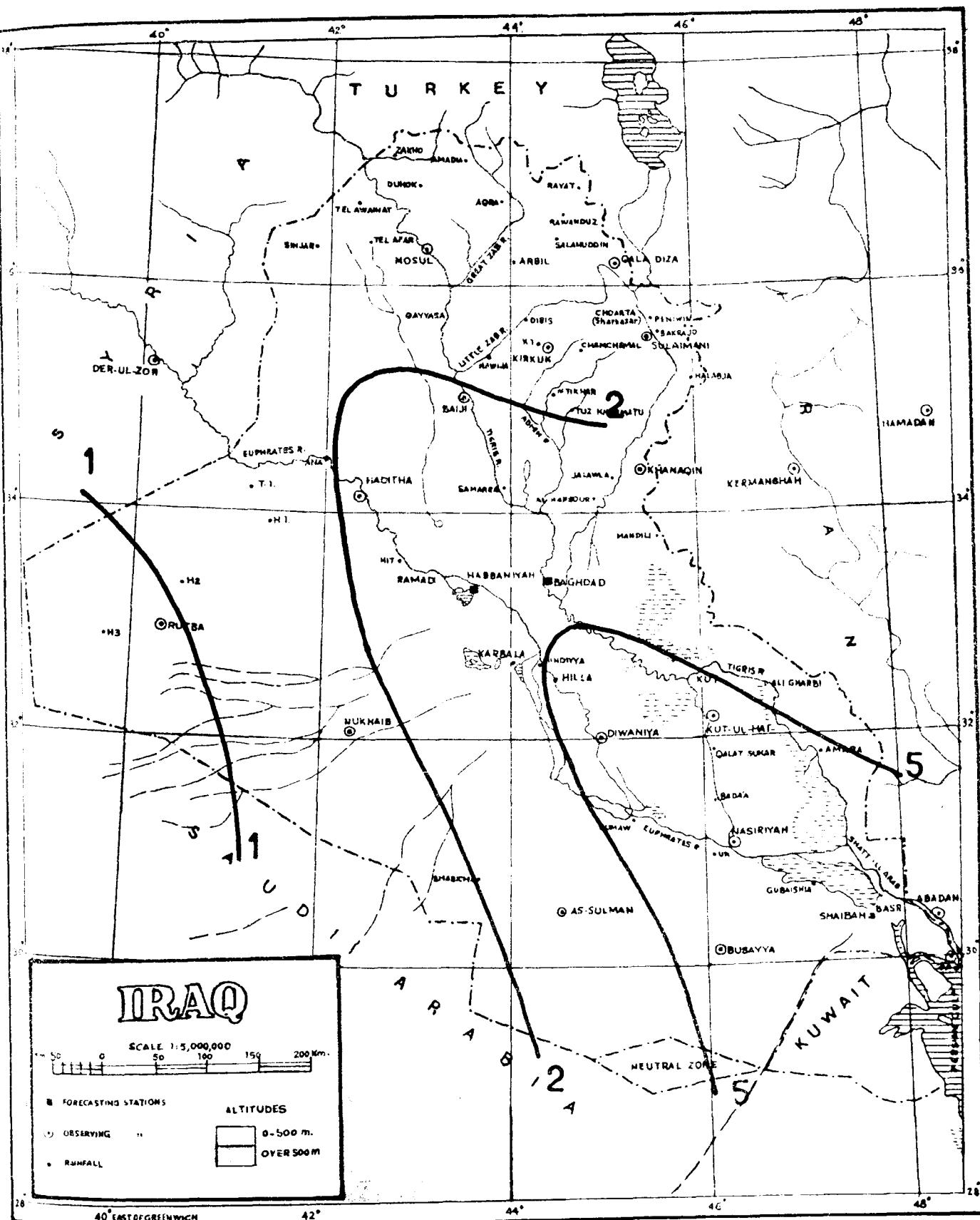
OCTOBER



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3

NOVEMBER

98

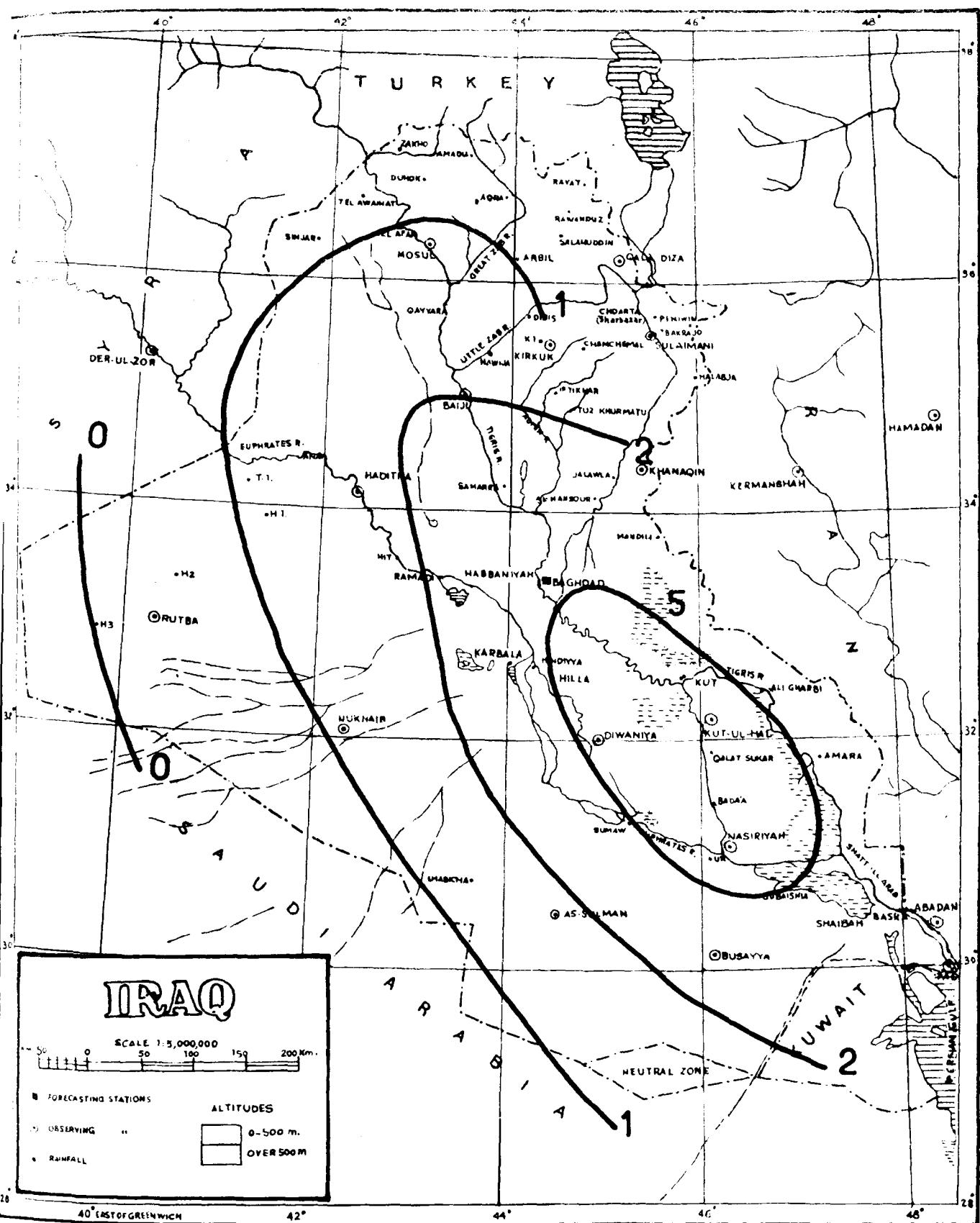


TEMPERATURE

99

Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

MAY

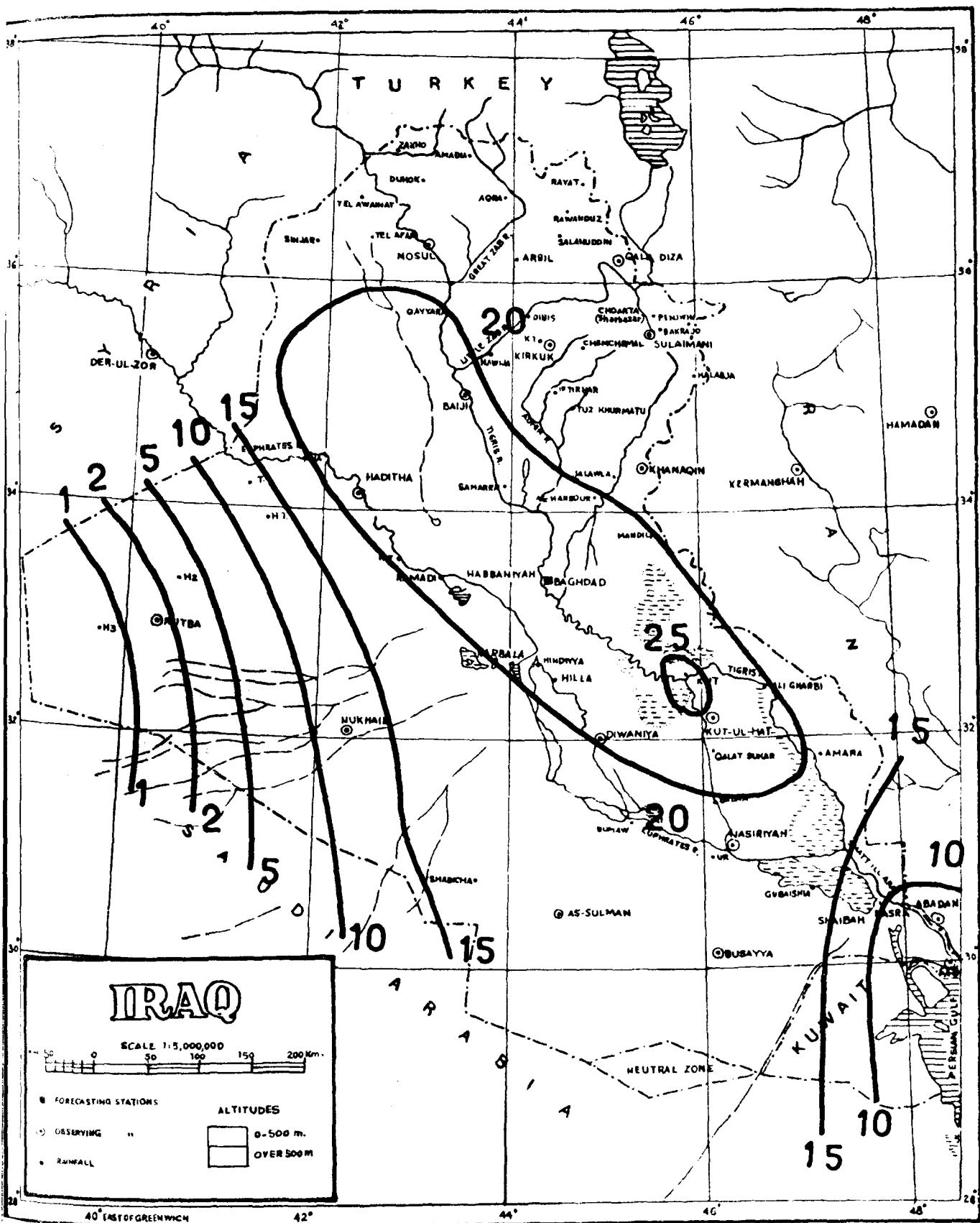


T E M P E R A T U R E

Mean Monthly Number of Days with Maximum Temperature 40 C° or More
period of records see page 2/3

100

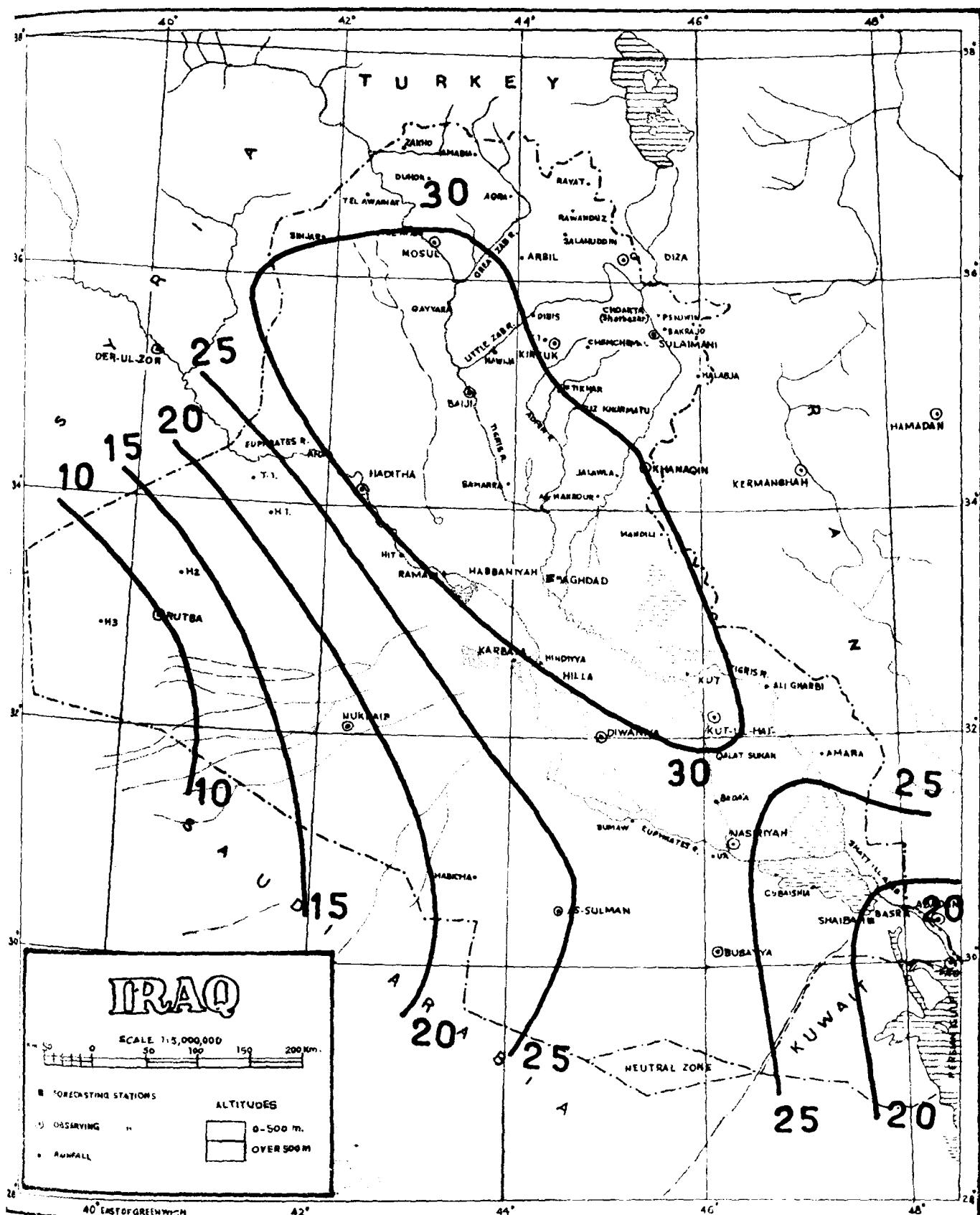
JUNE



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

101

JULY

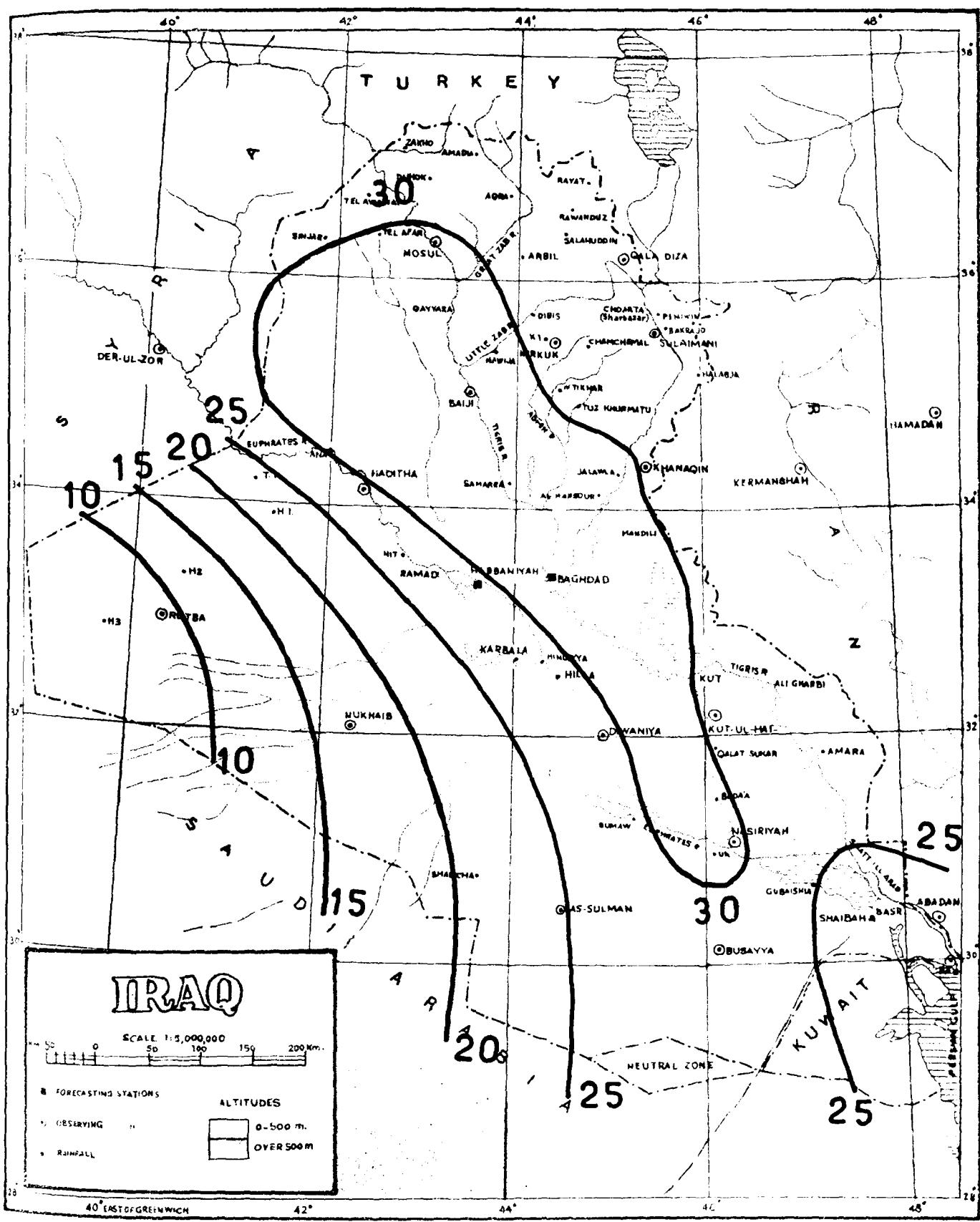


TEMPERATURE

102

Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

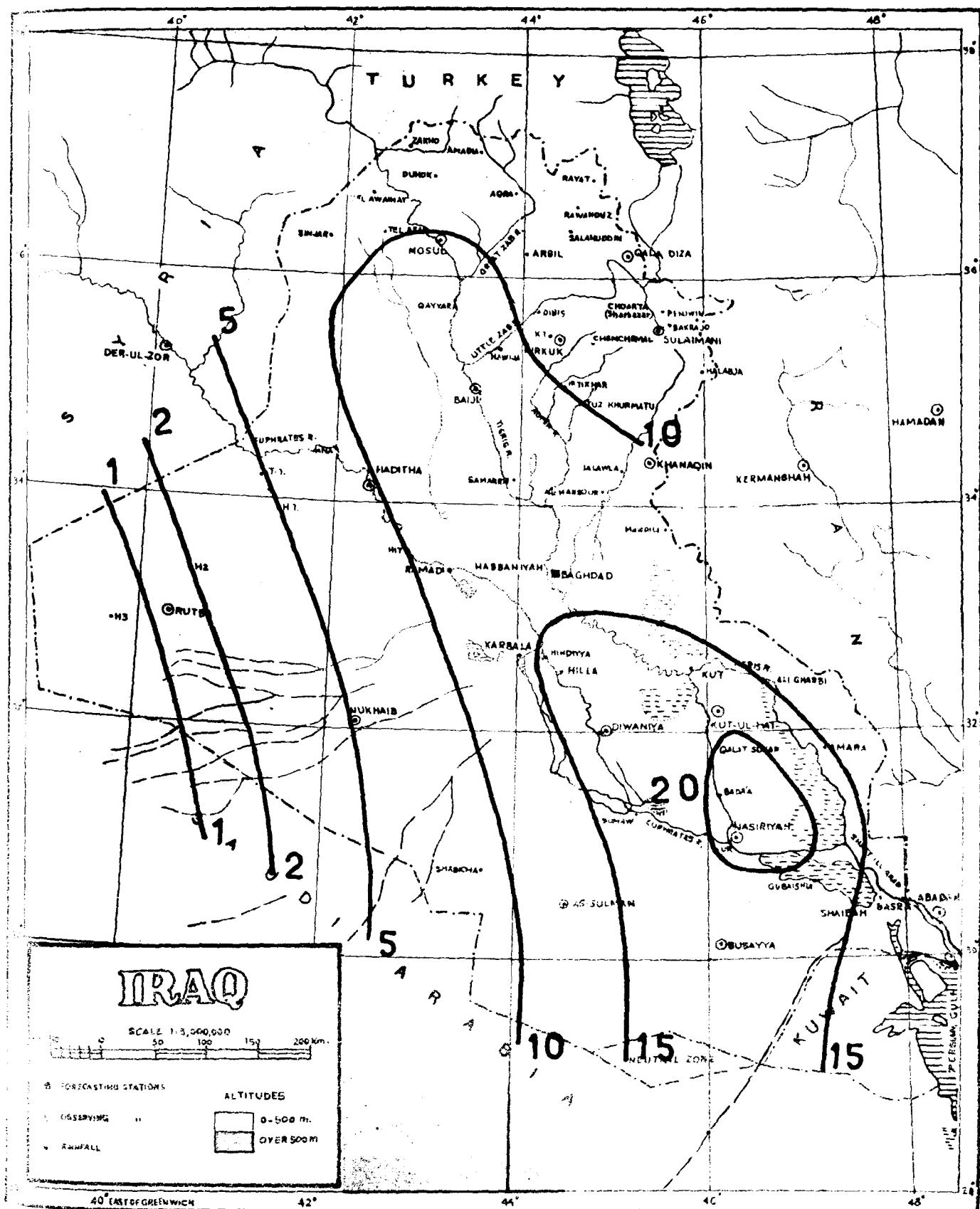
AUGUST



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 40°C or More
 period of records see page 2/3

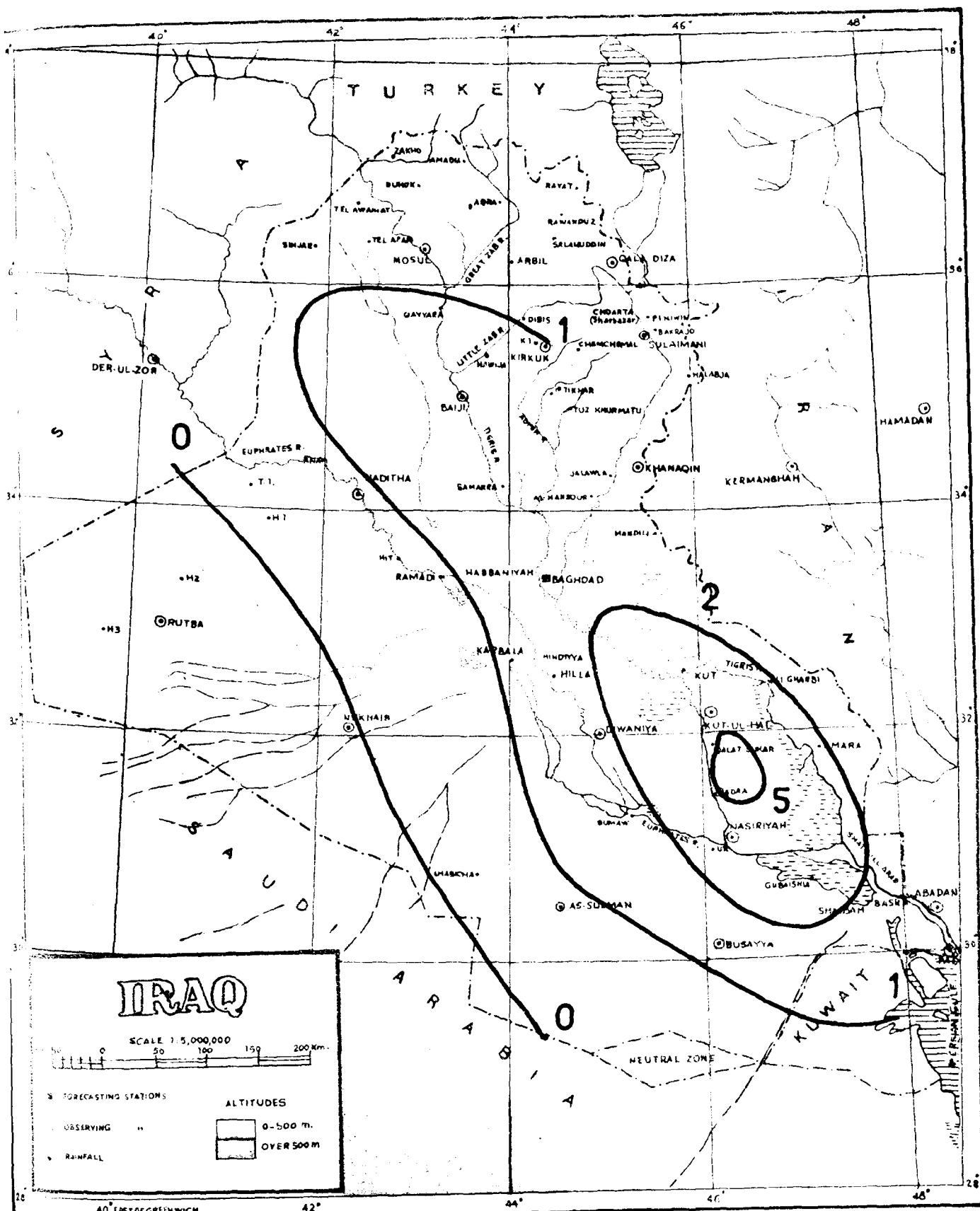
103

SEPTEMBER



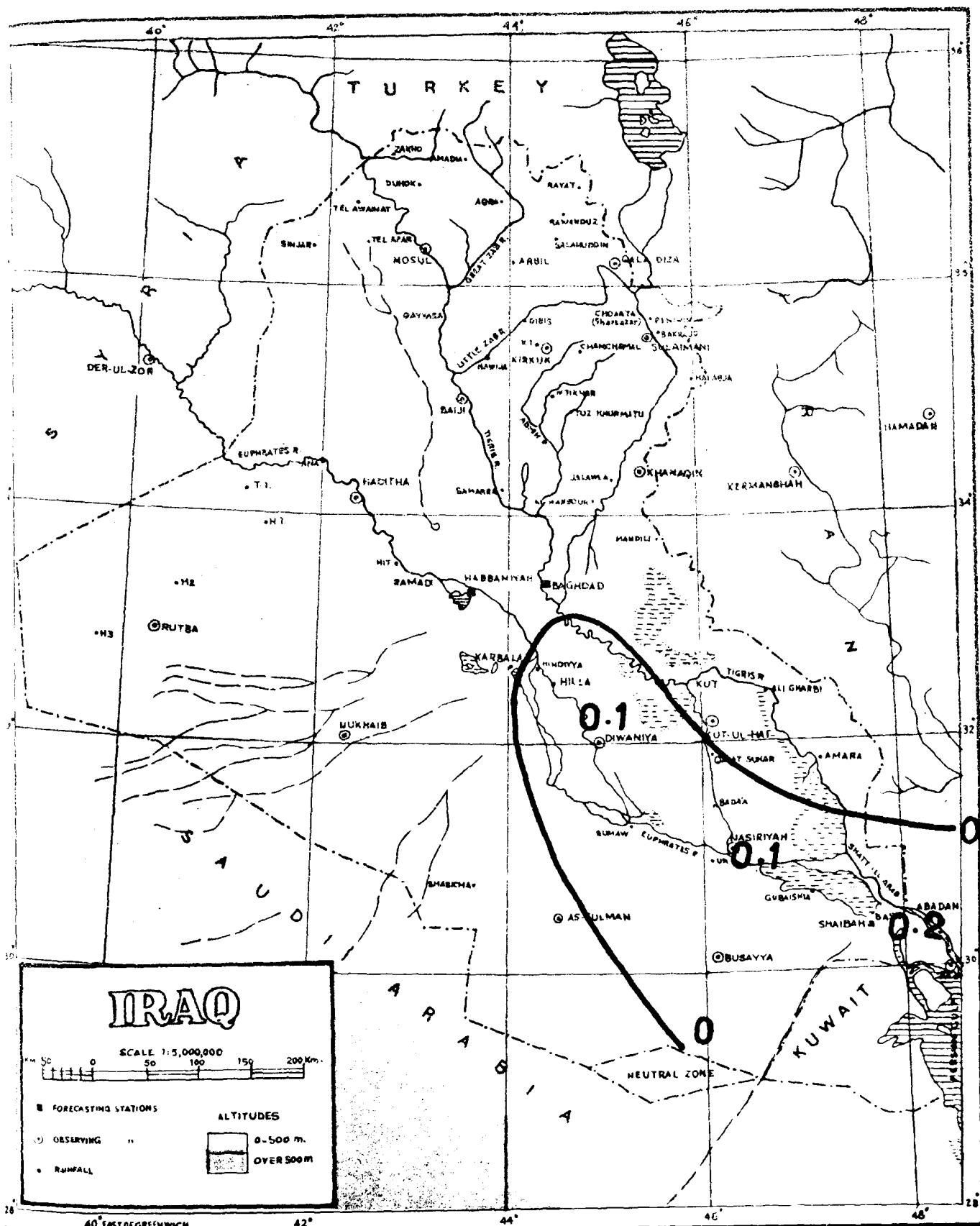
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

OCTOBER

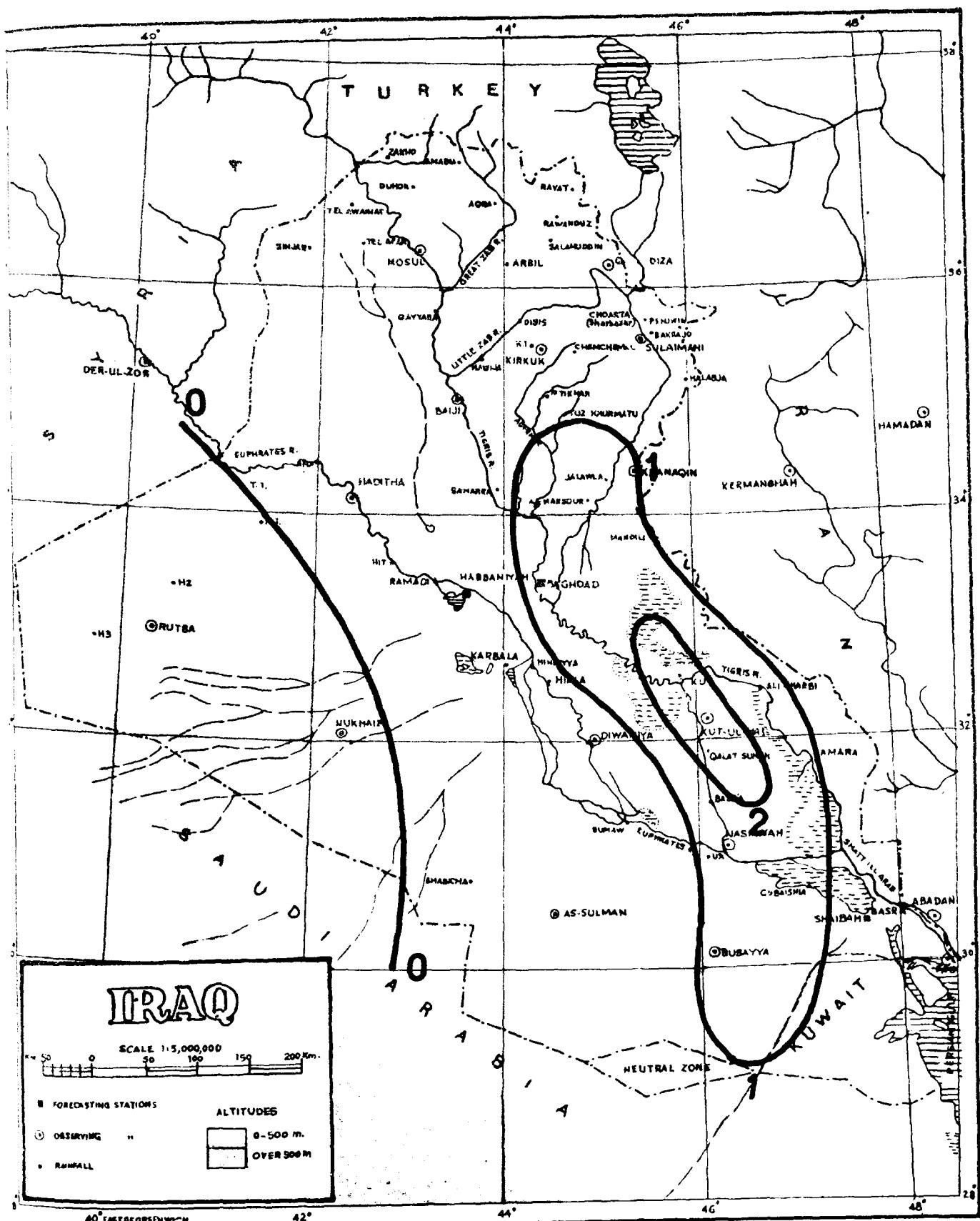


TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

MAY

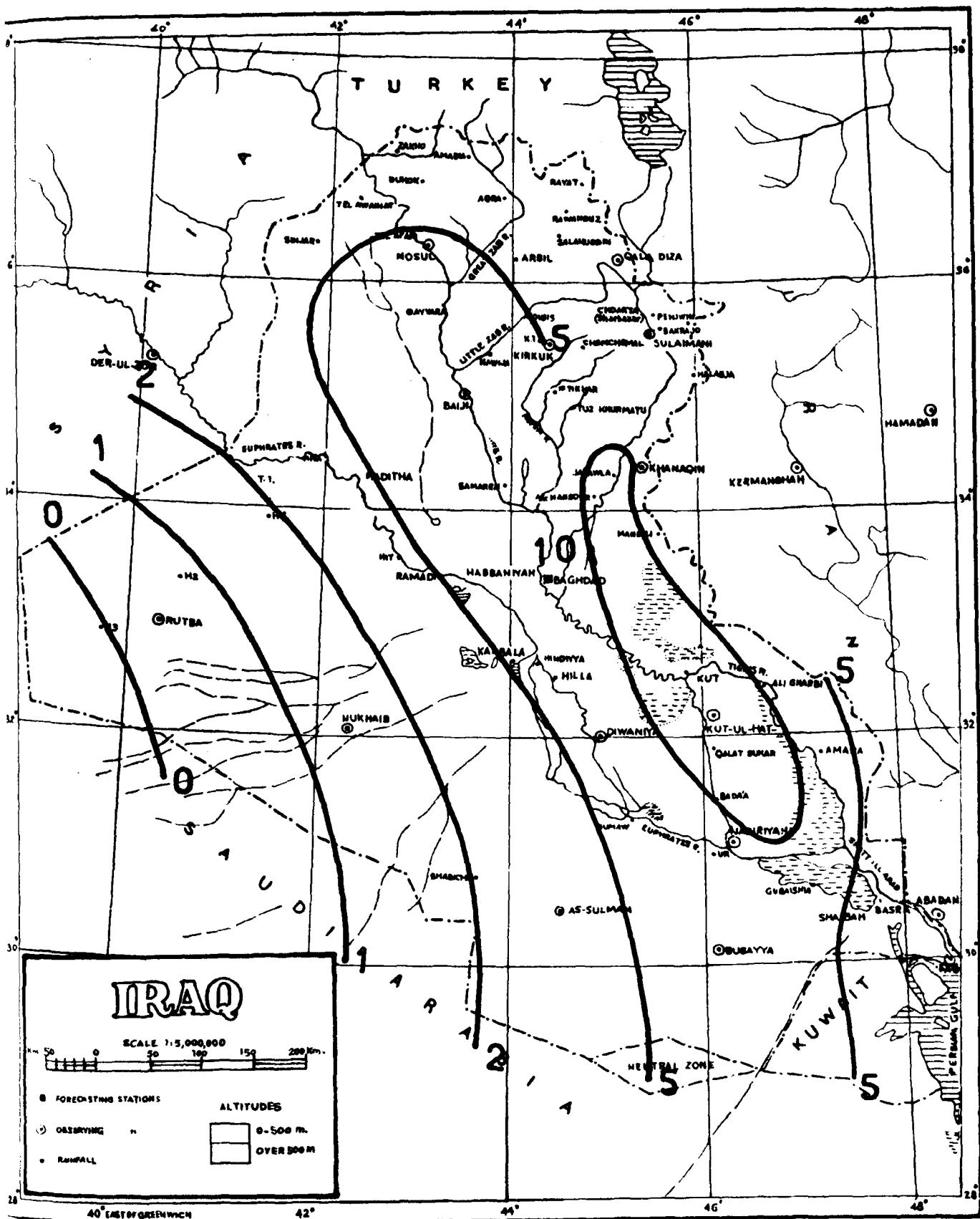


JUNE



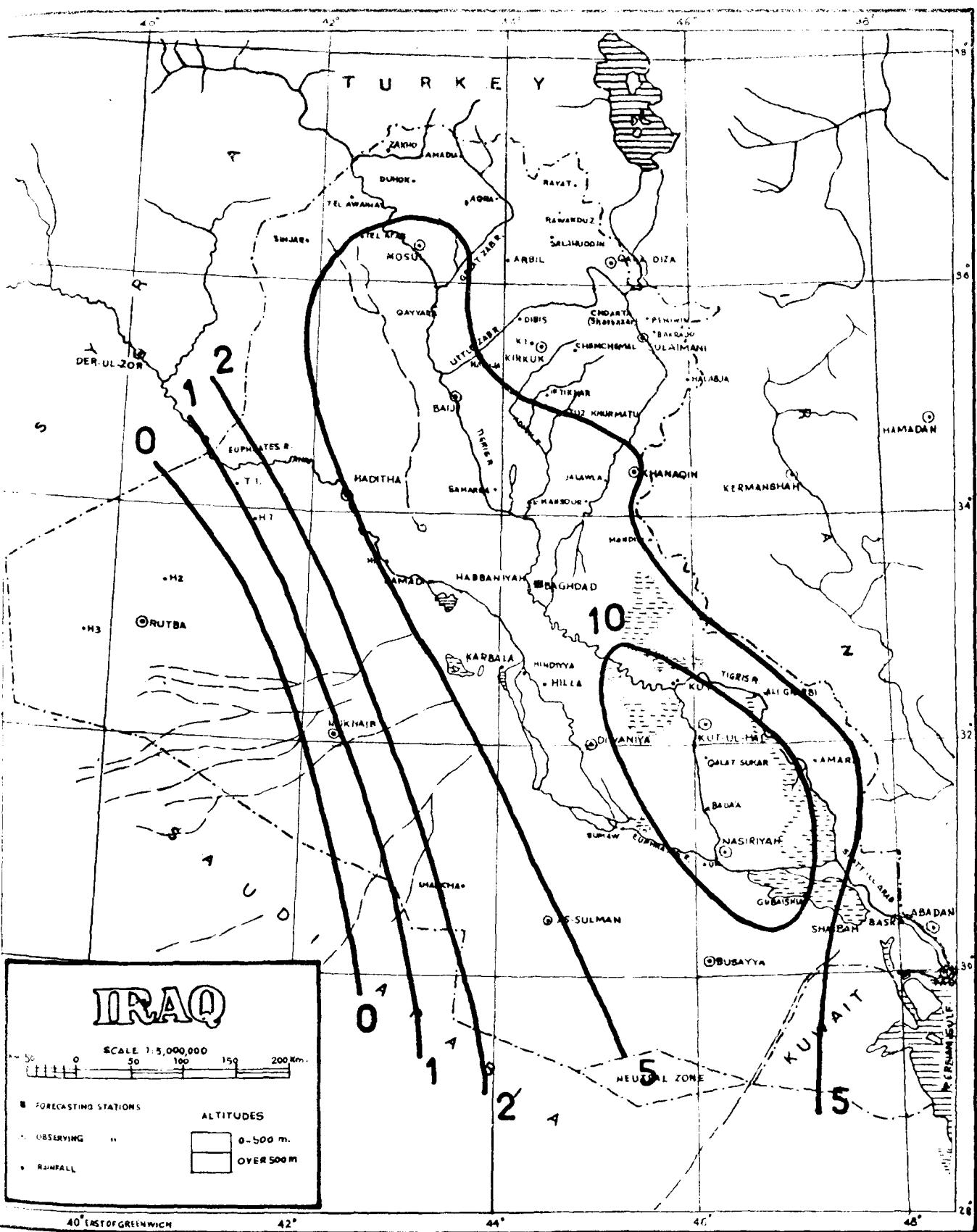
TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

JULY

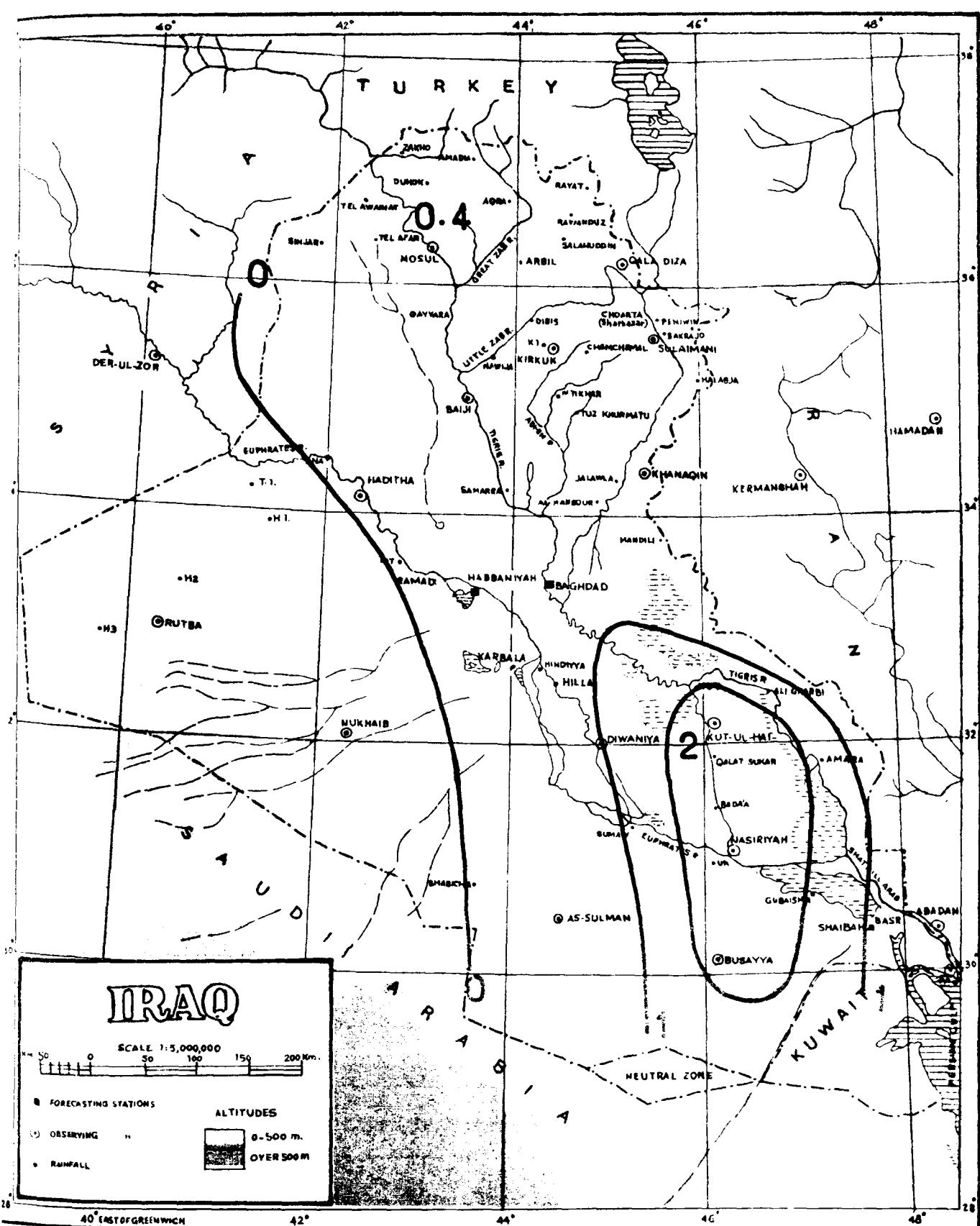


TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

AUGUST

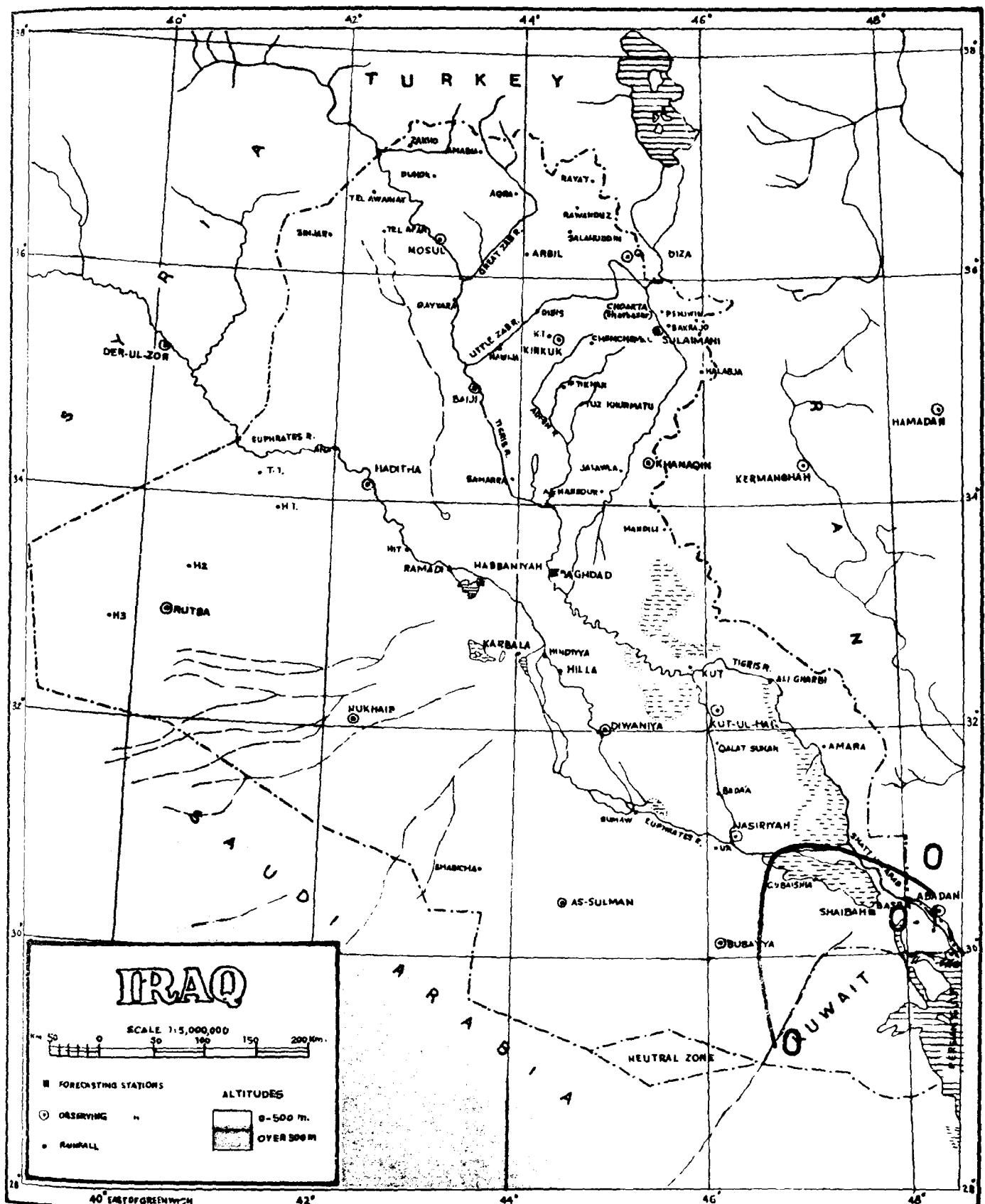


SEPTEMBER



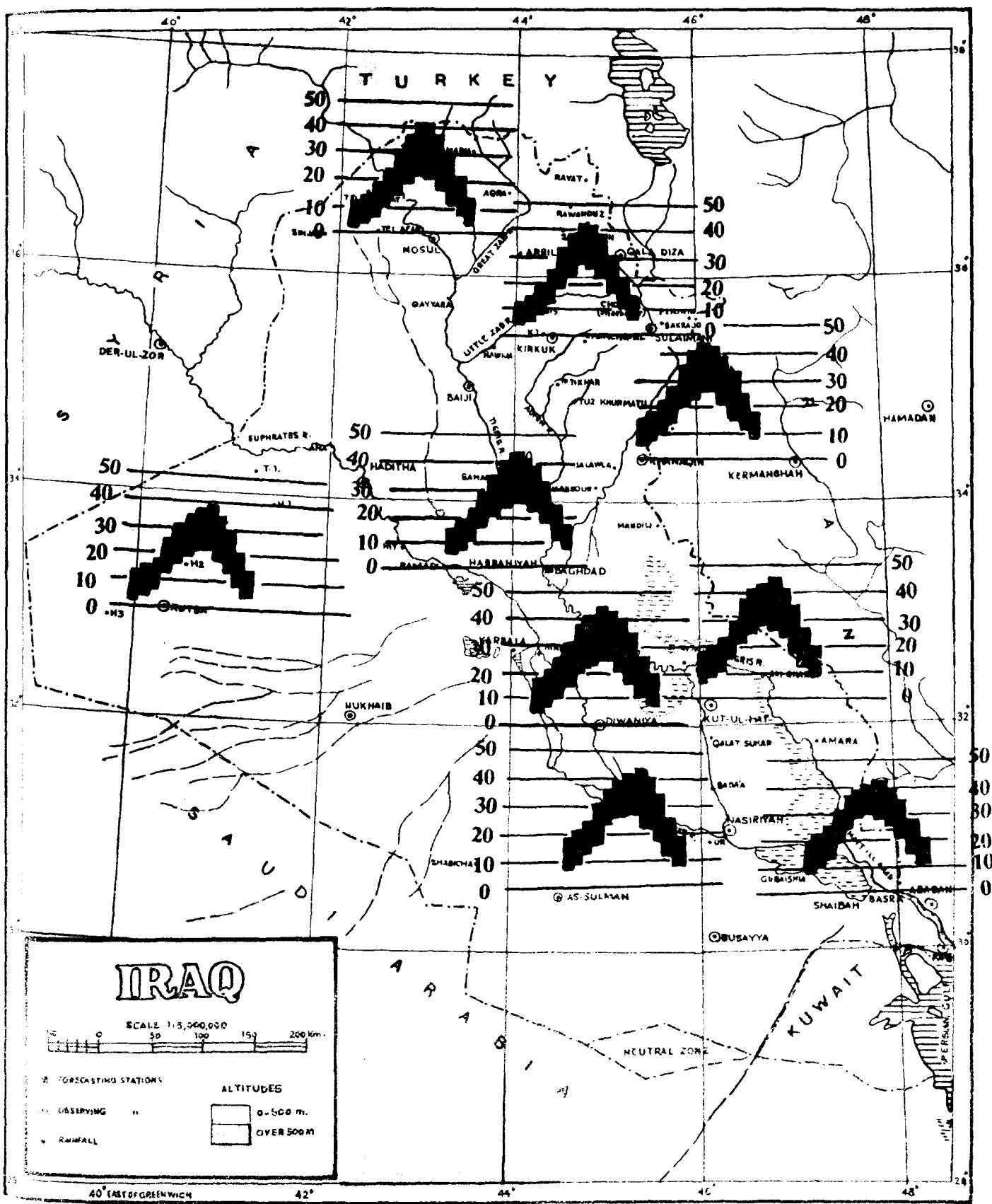
TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

OCTOBER

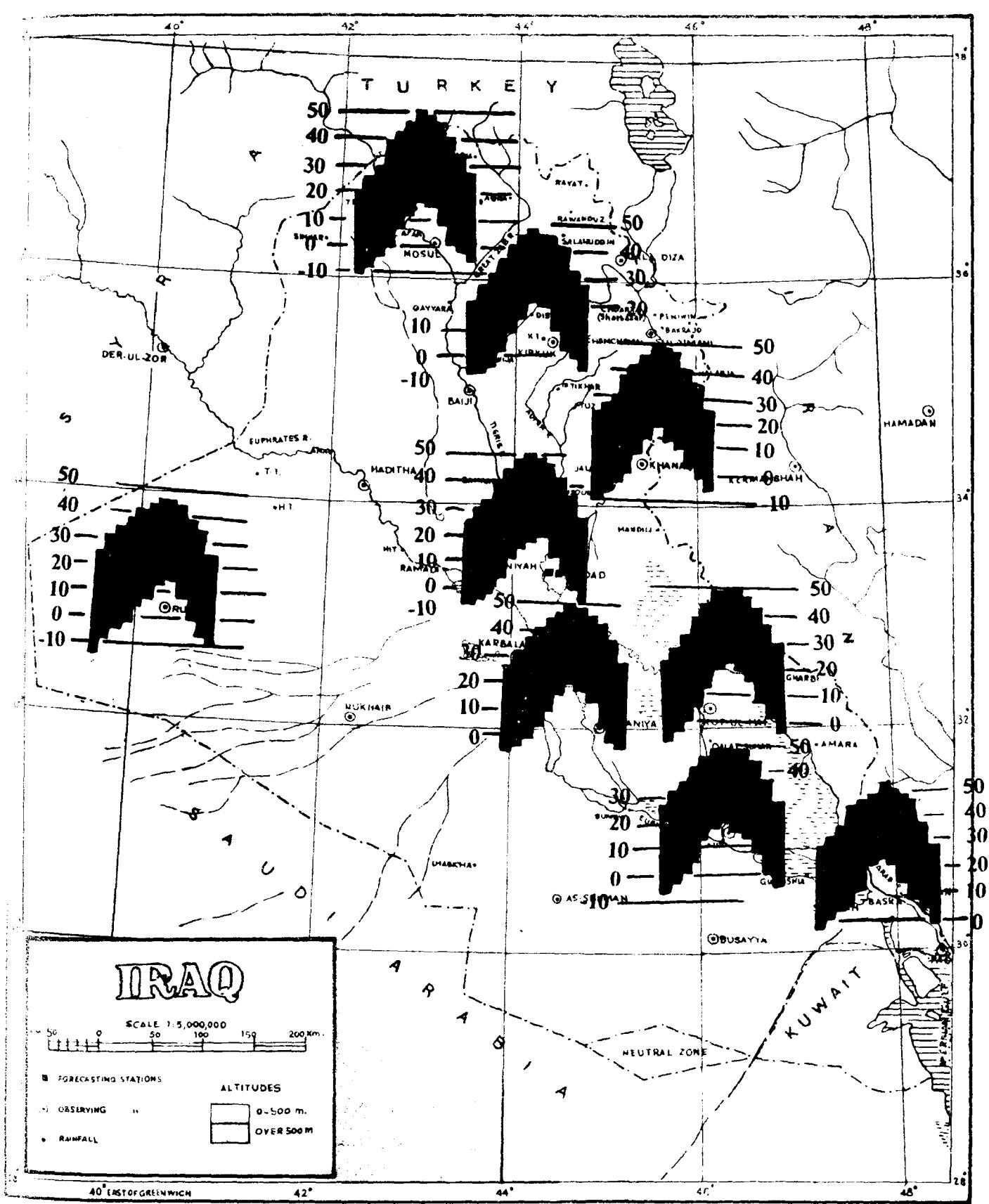


TEMPERATURE
Mean Monthly Maximum and Mean Monthly Minimum (Celsius°)
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3

111

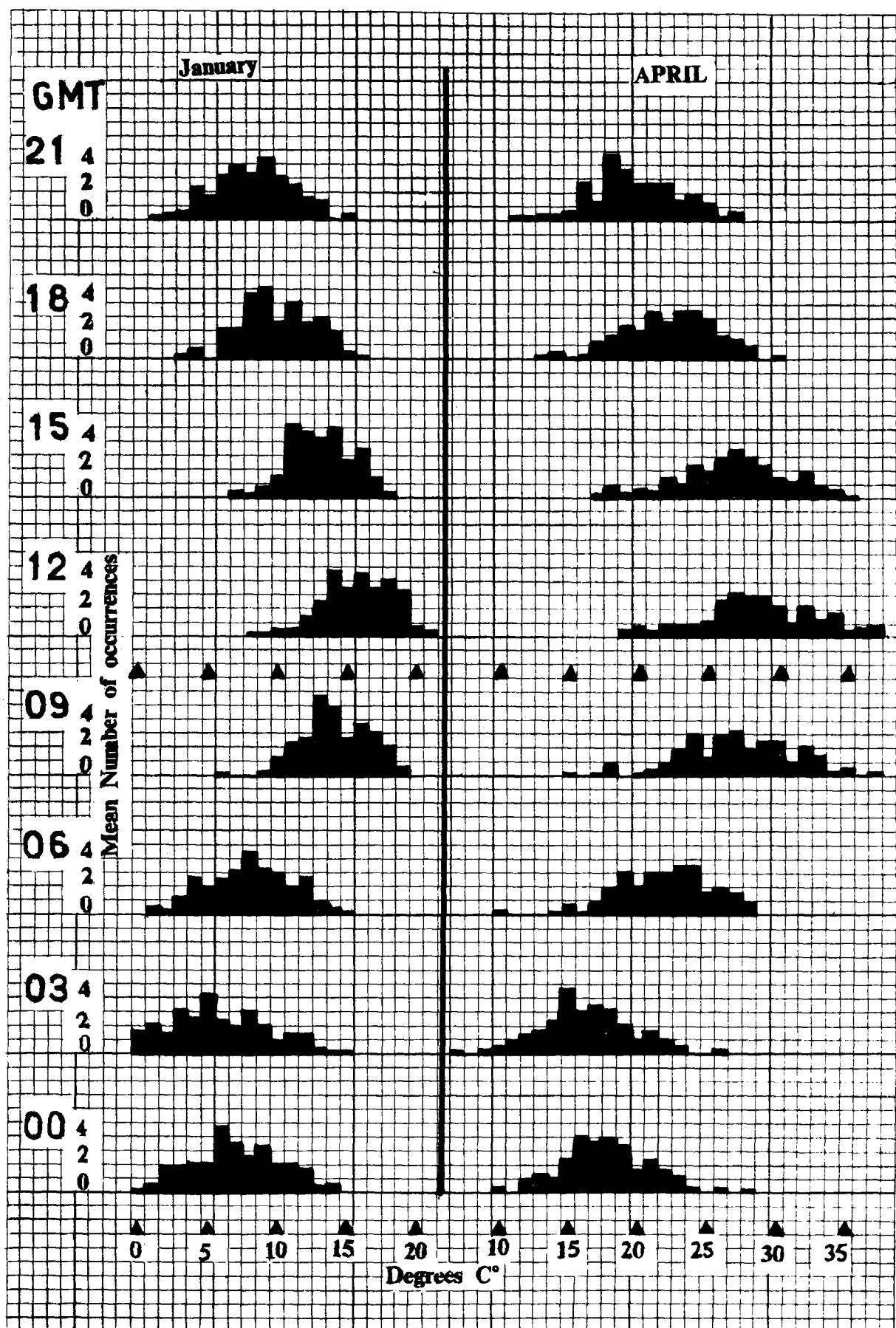


TEMPERATURE
Highest Maximum and Lowest Minimum
ever observed for each month of the year
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3



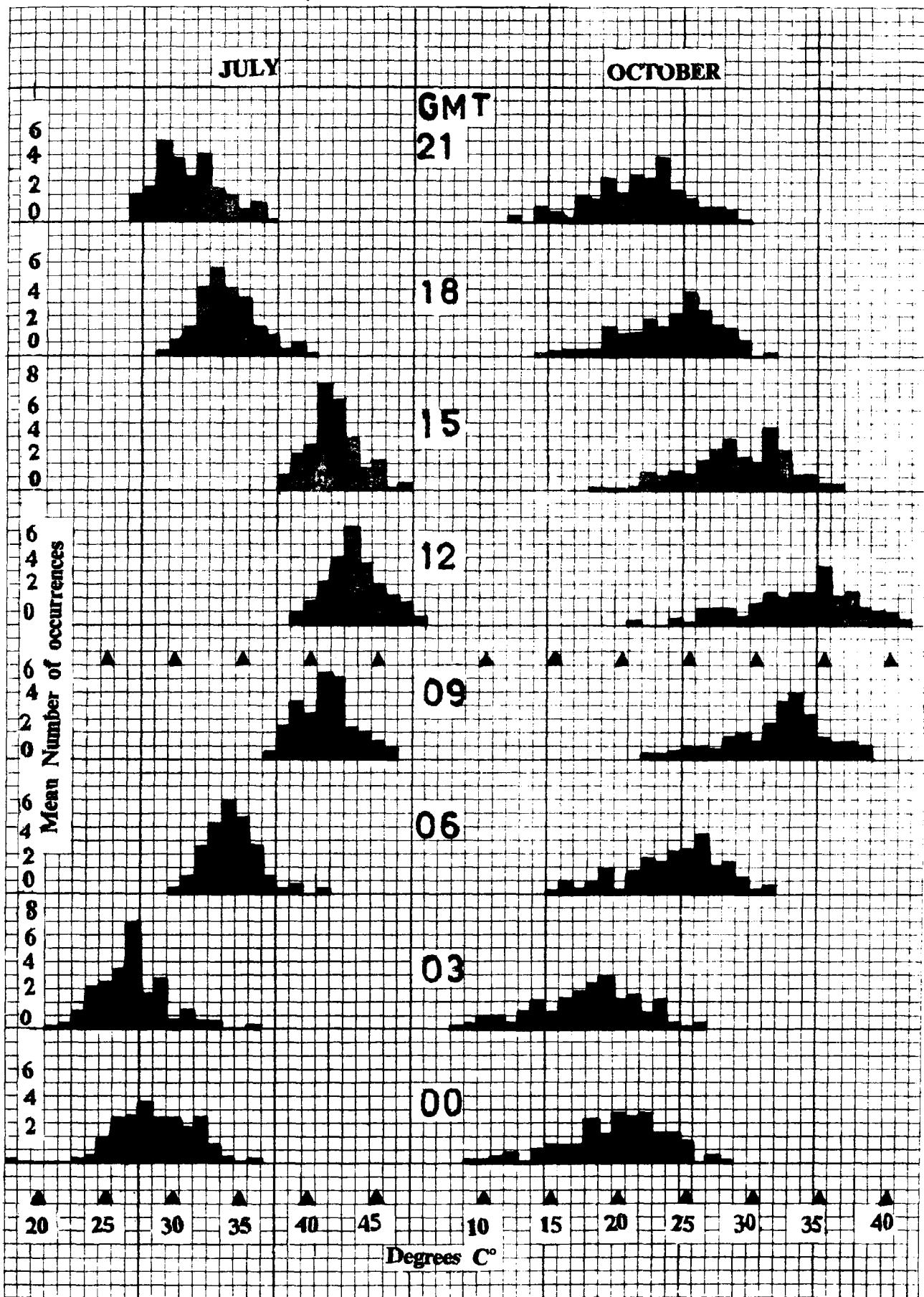
TEMPERATURE
Mean Number of Specified Values
of Surface Dry Bulb Temperature
at Baghdad Airport
period of records 1951—1955

113



T E M P E R A T U R E
Mean Number of Specified Values
of Surface Dry Bulb Temperature
at Baghdad Airport
period of records 1951—1955

114

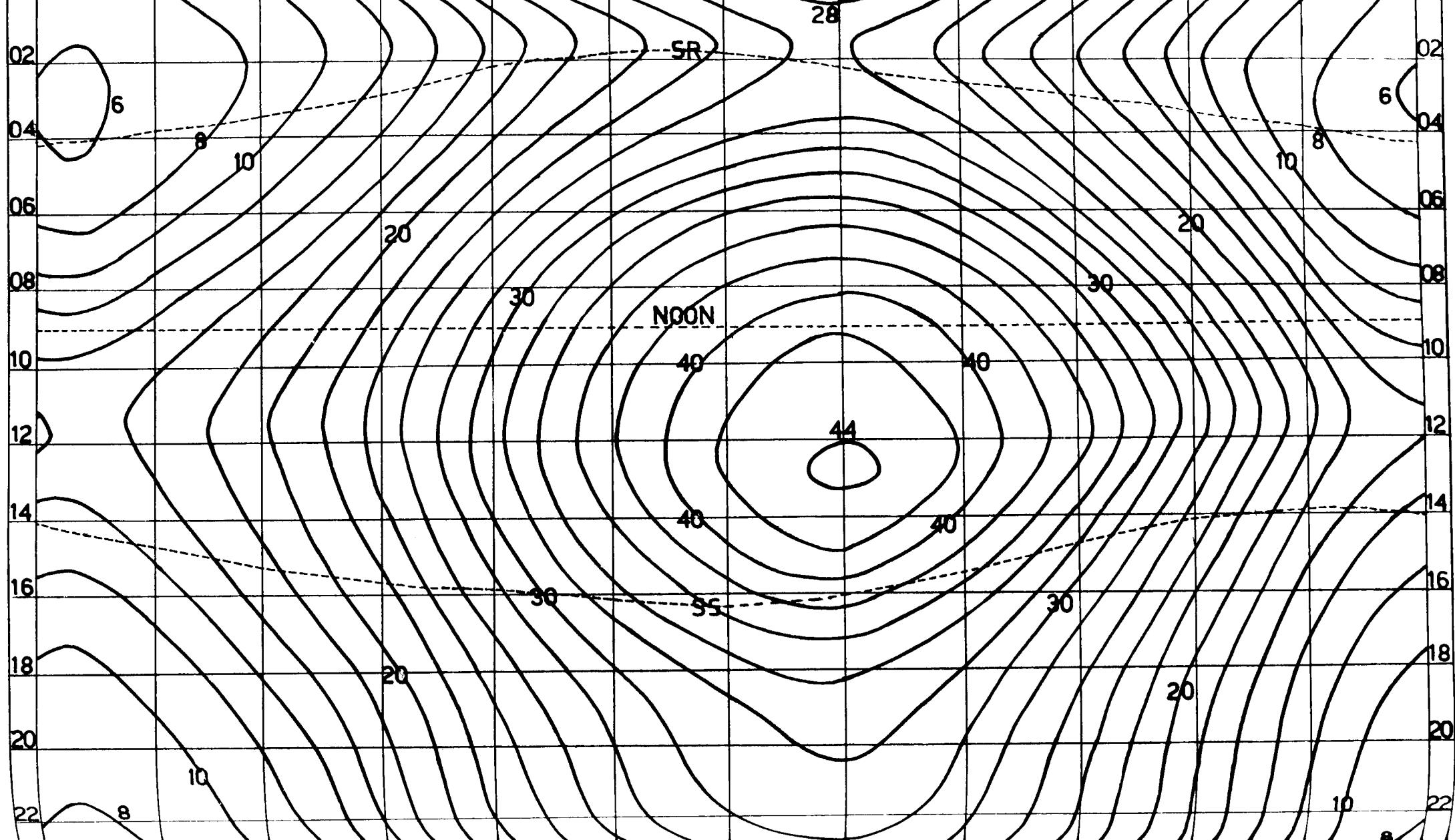


ISOPOLETS OF THE MEAN TEMPERATURE AT BAGHDAD AIRPORT [C°]

GMT

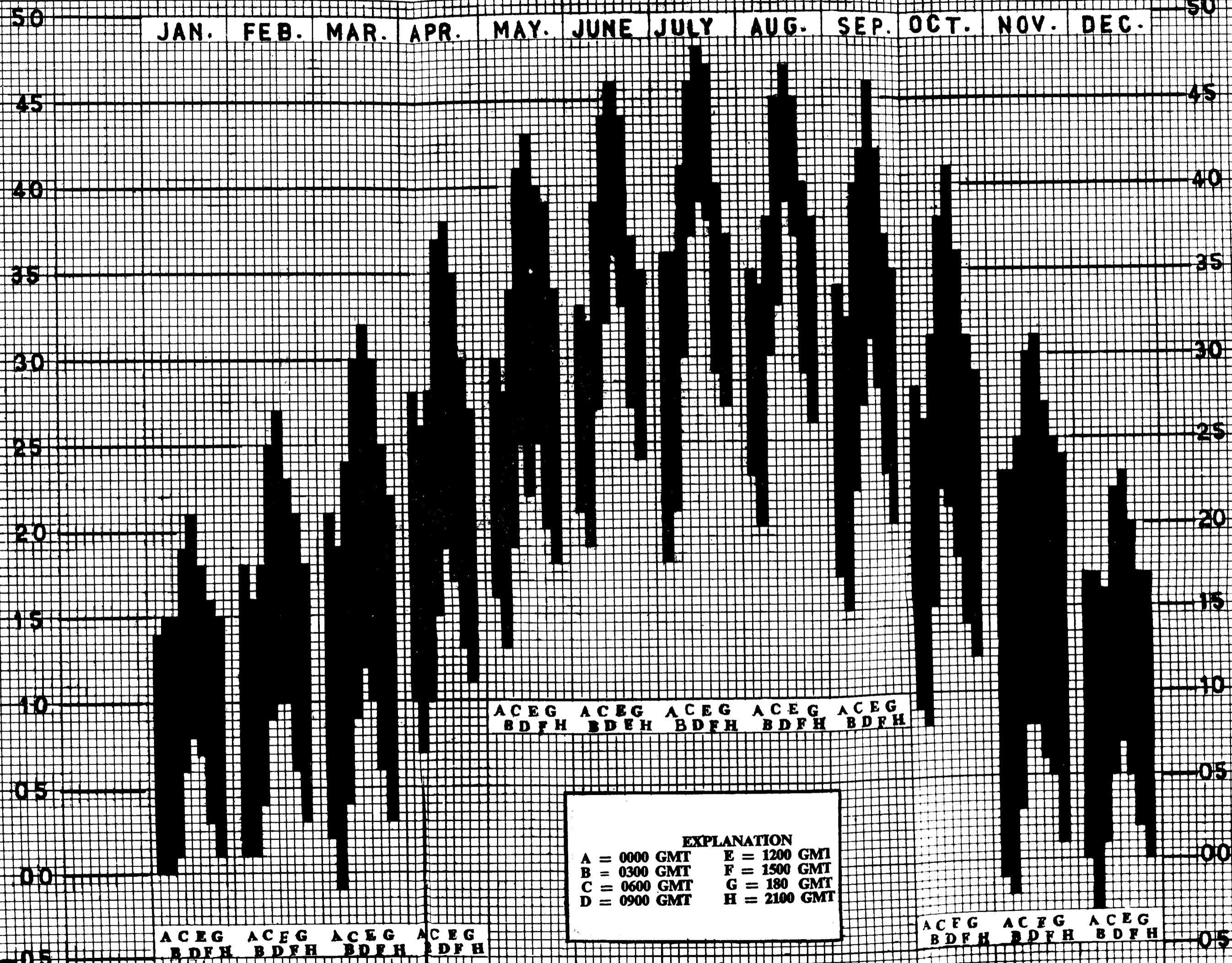
GMT

00 JAN. FEB. MARCH APRIL MAY JUNE JULY AUGUST SEPT. OCT. NOV. DEC. 00



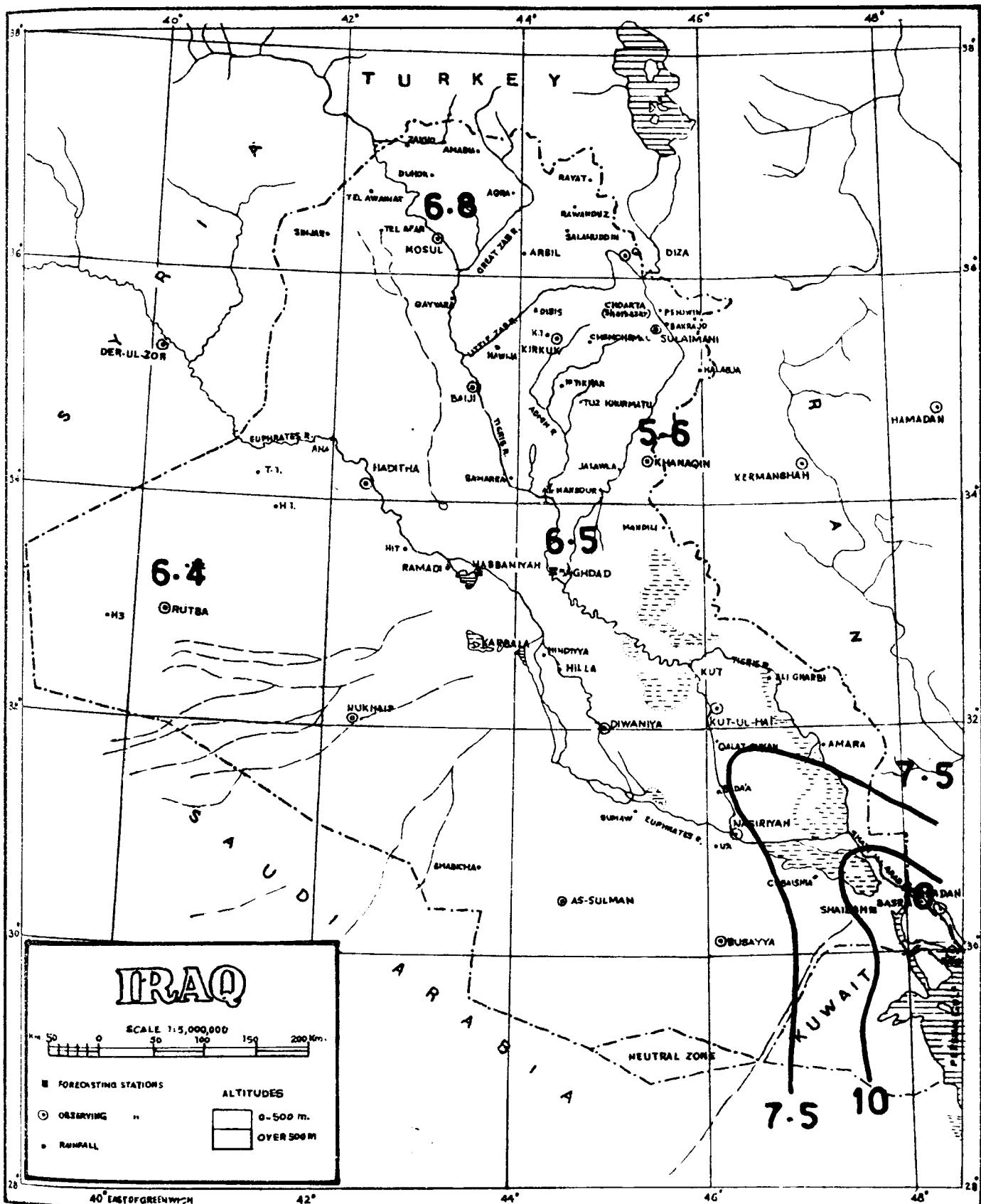
MONTHLY TEMPERATURE RANGES
FOR SELECTED HOURS AT BAGHDAD AIRPORT
[00, 03, 06, ETC. GMT]

PERIOD OF RECORDS 1951 - 1955



HUMIDITY
Mean Annual Mixing Ratio (gm/kg)
period of records see page 2/3

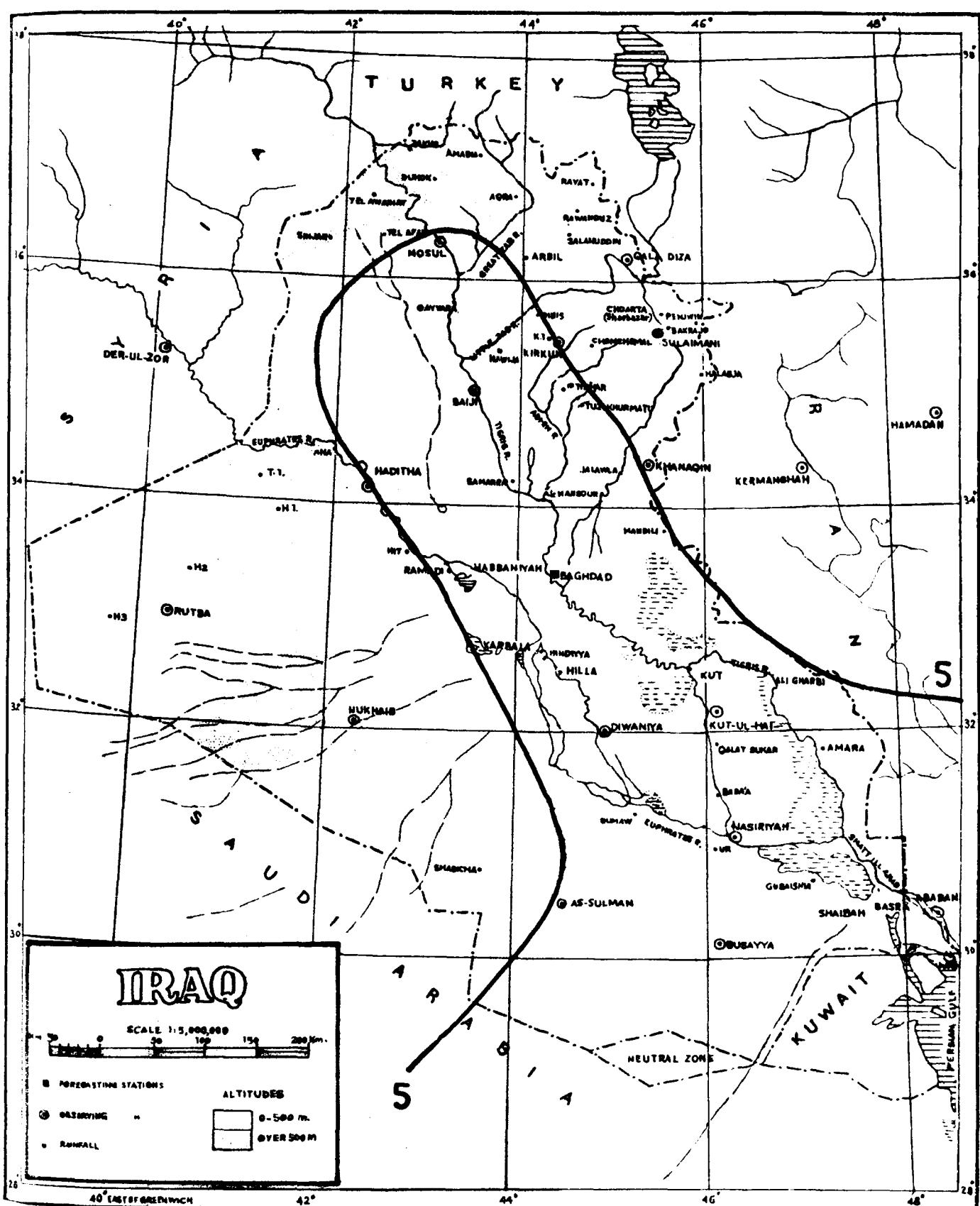
116



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

117

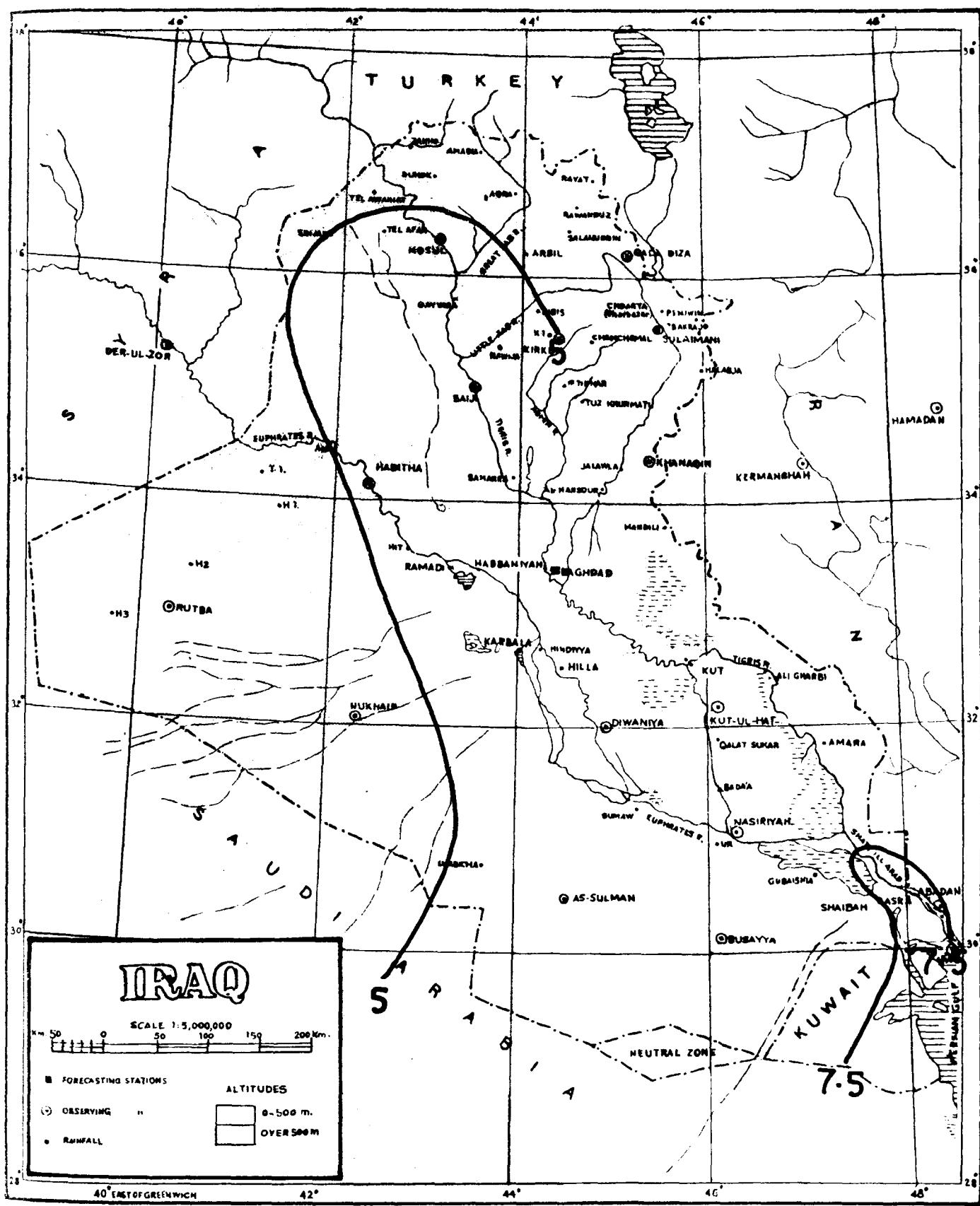
JANUARY



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

118

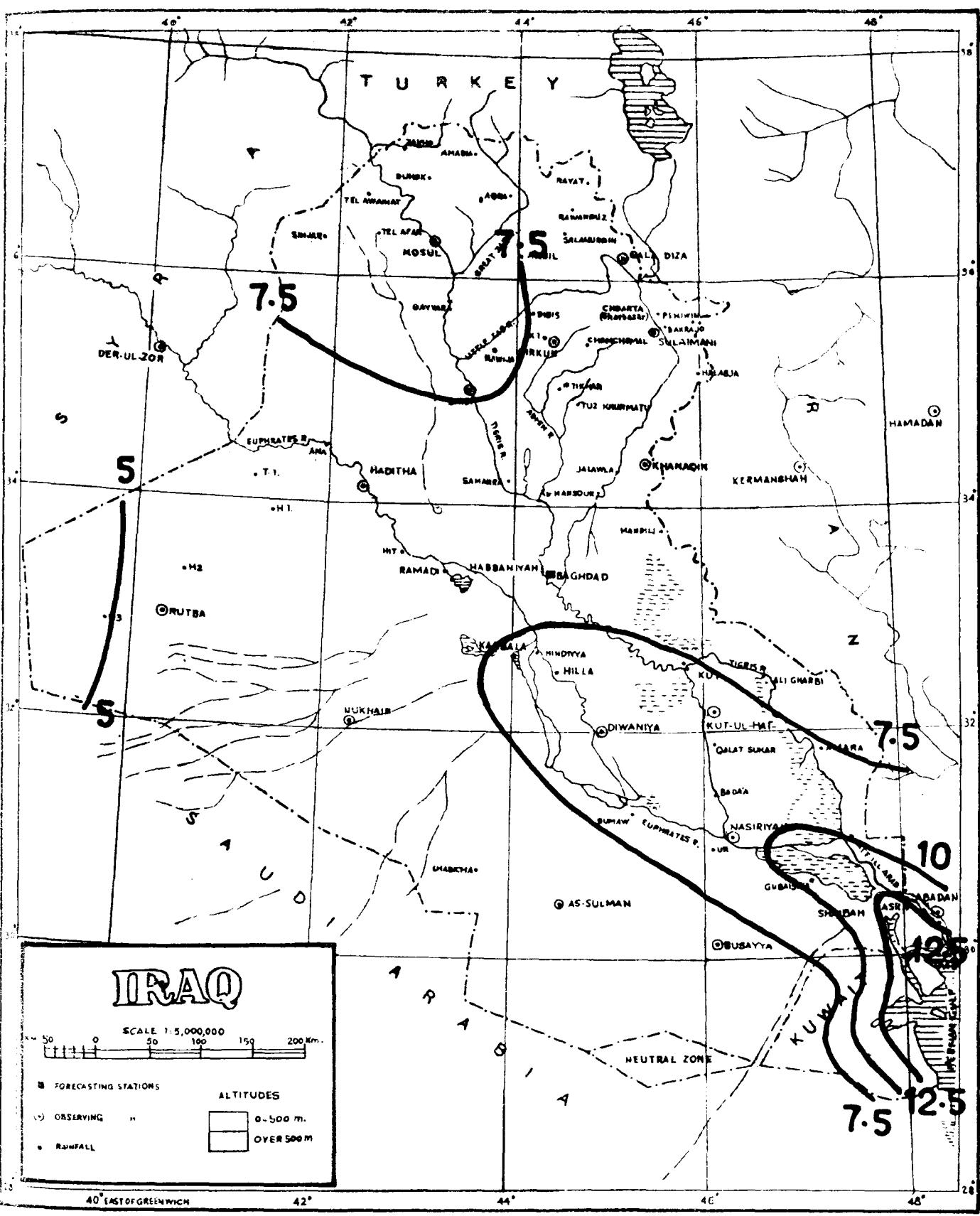
MARCH



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

119

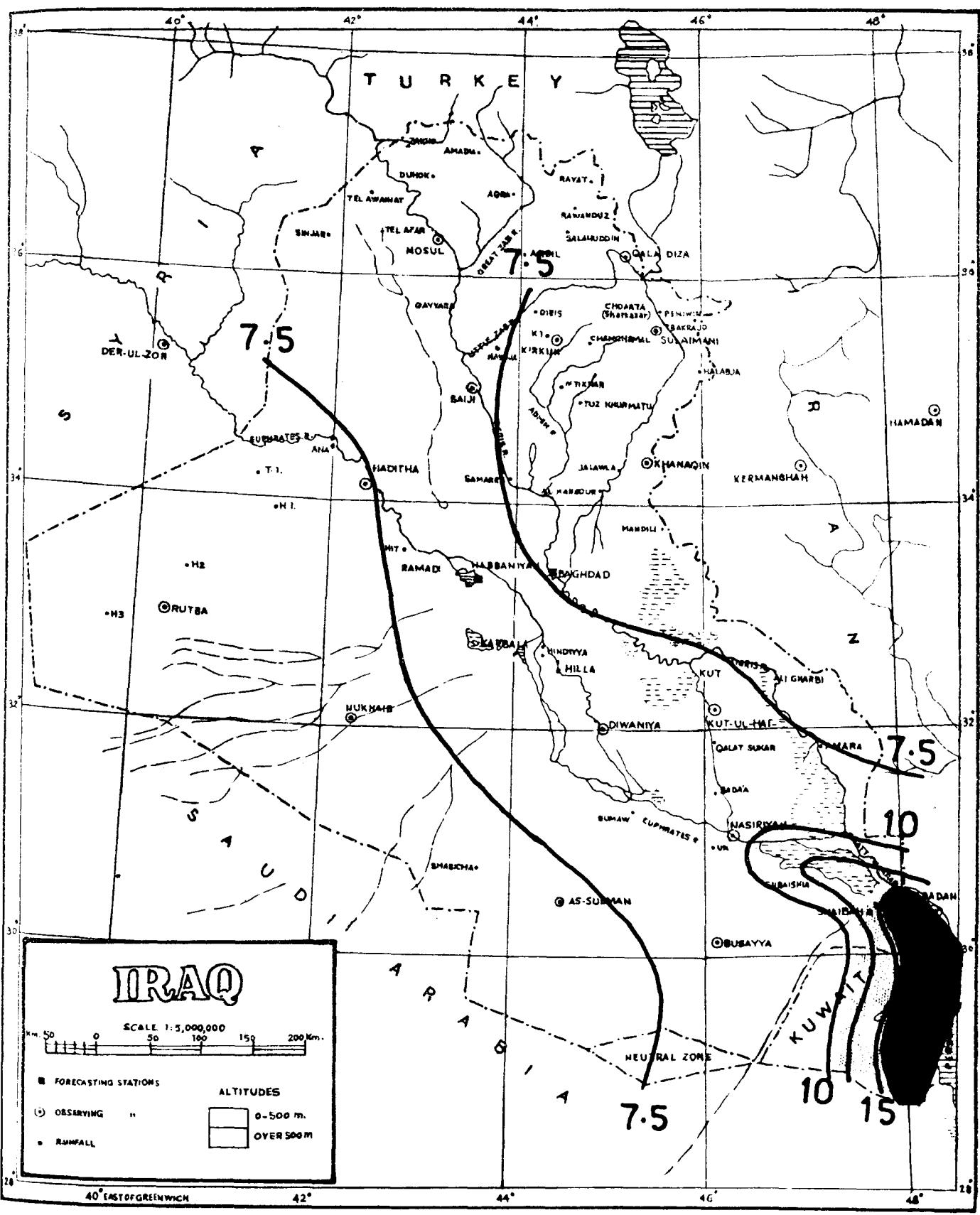
MAY



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

120

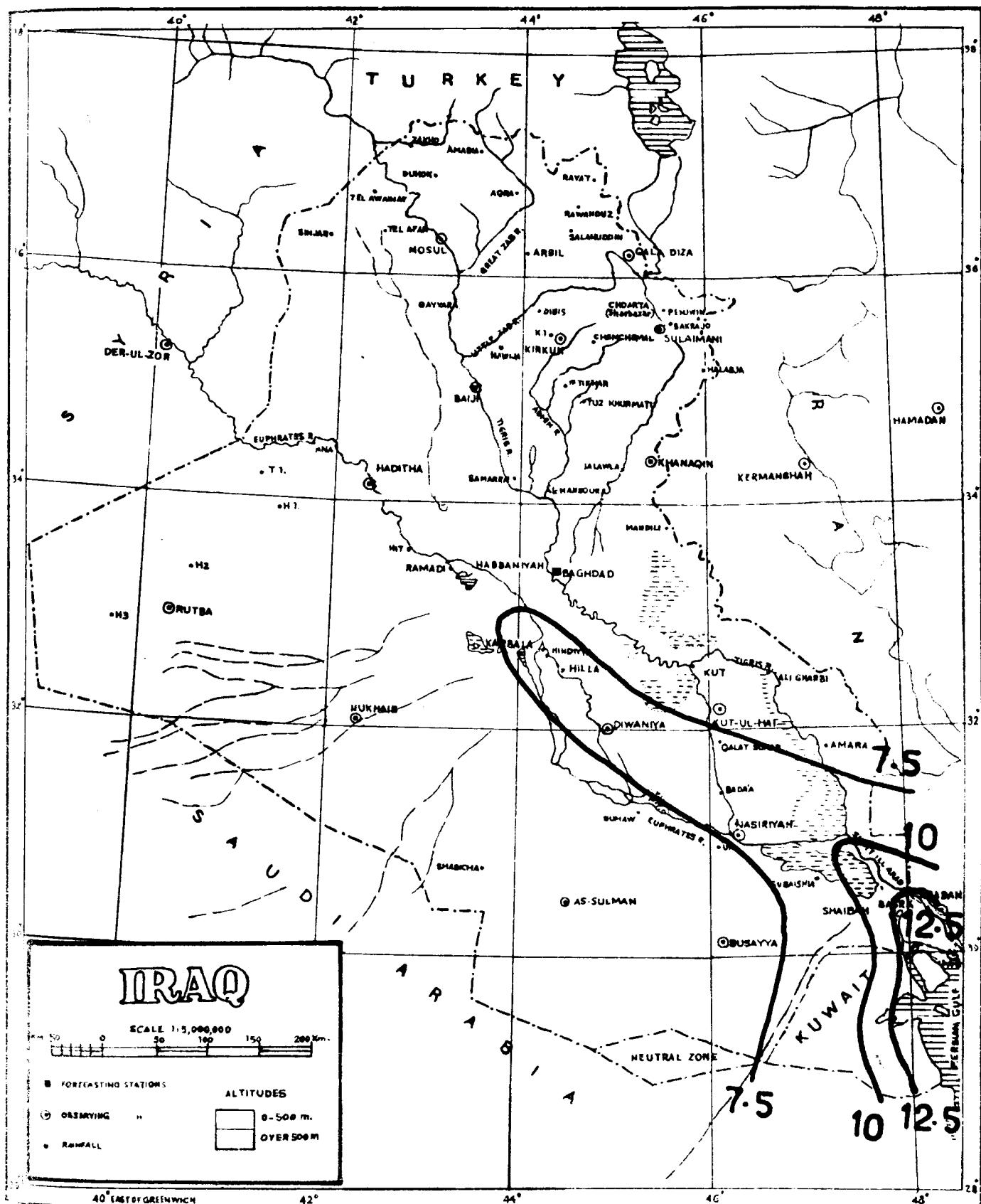
JULY



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

121

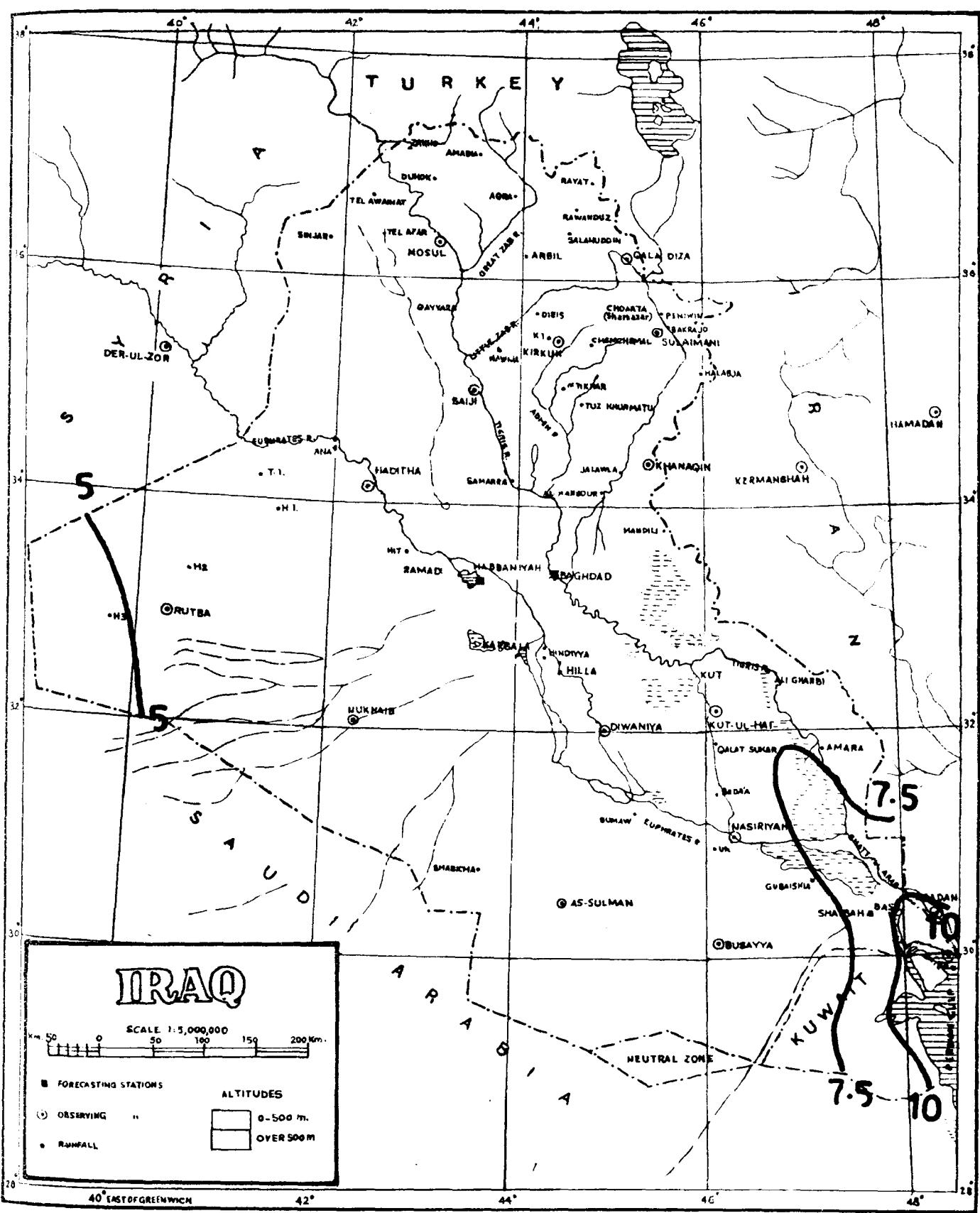
SEPTEMBER



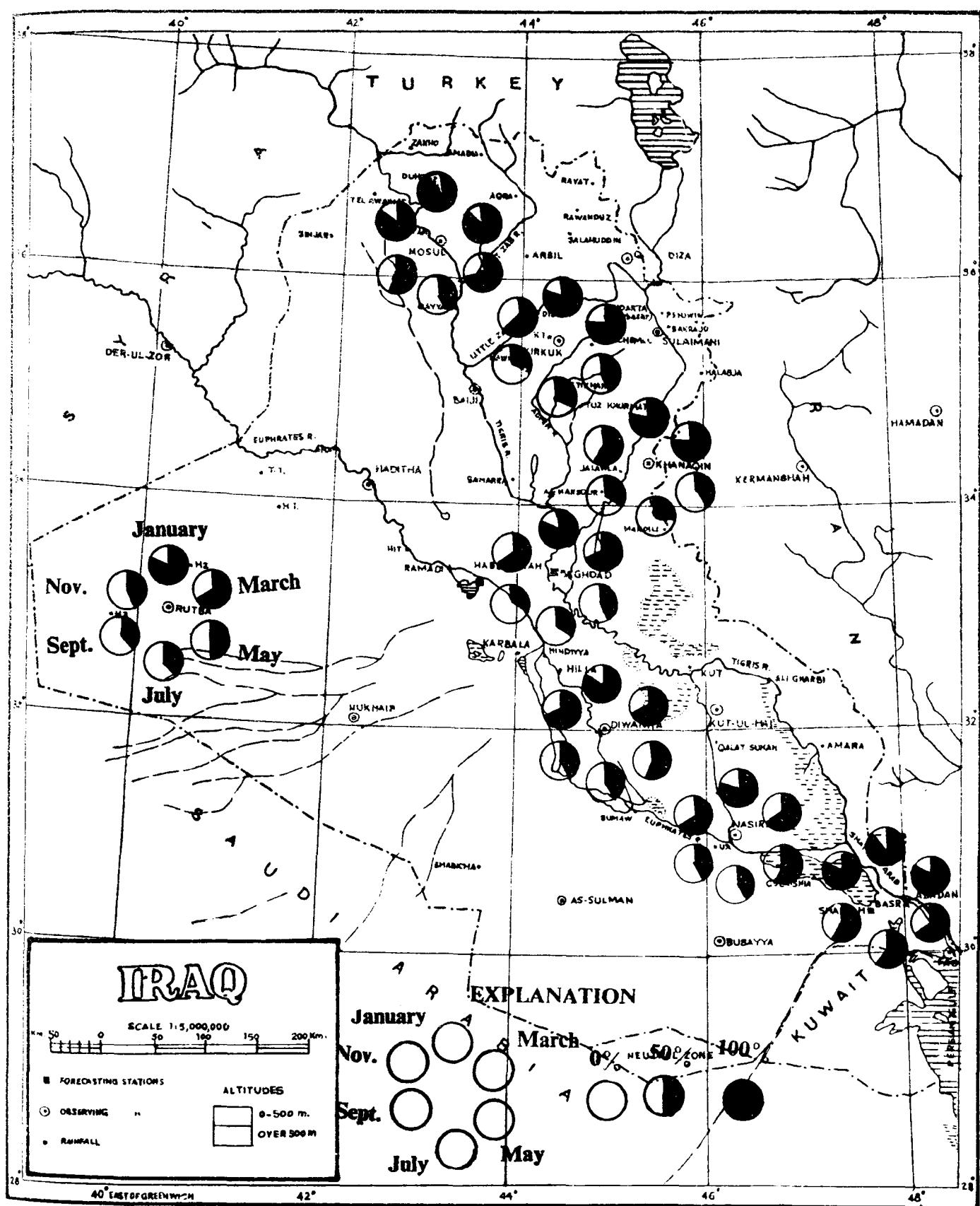
HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

122

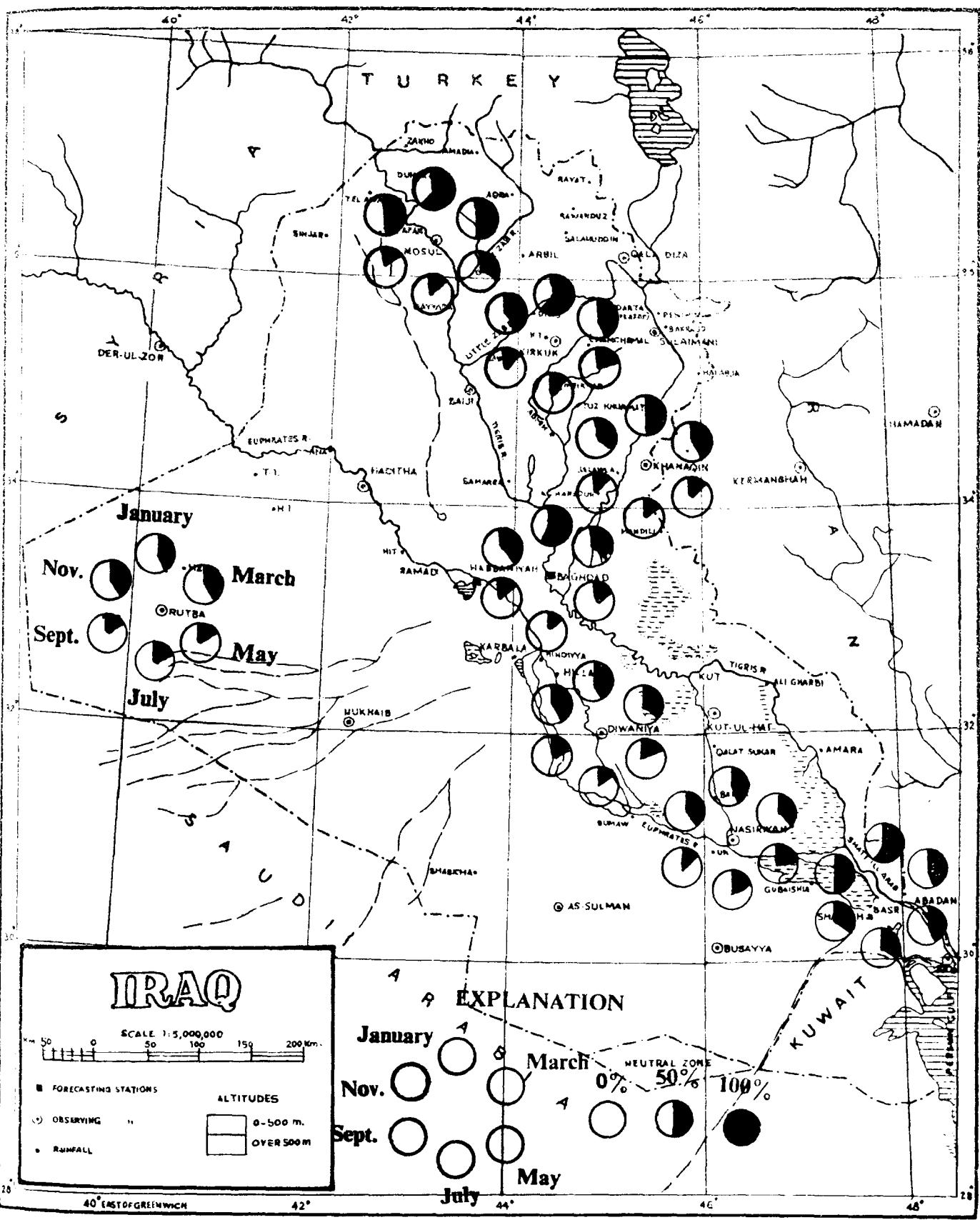
NOVEMBER



H U M I D I T Y
Mean Monthly Relative Humidity at 0300 GMT



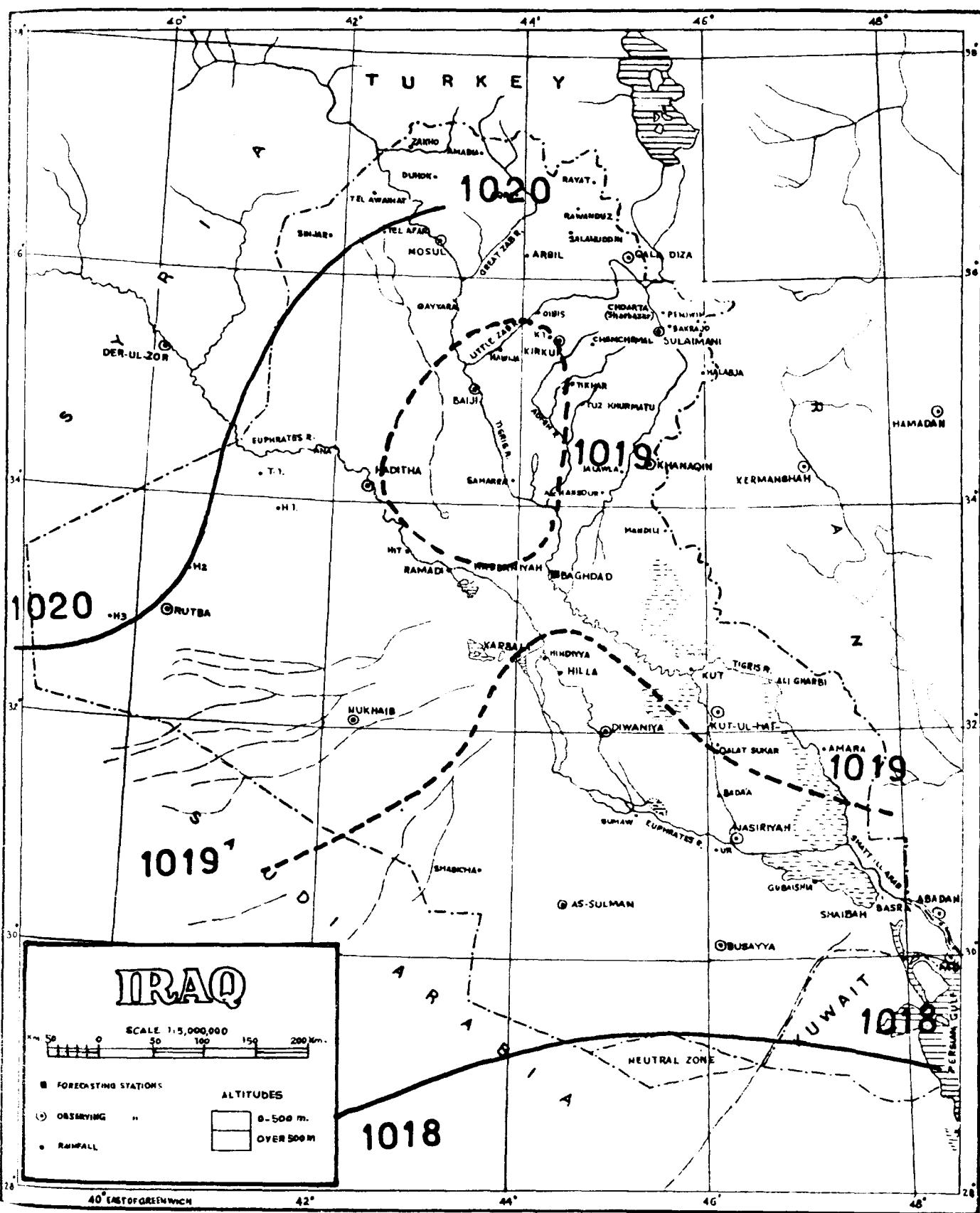
HUMIDITY
Mean Monthly Relative Humidity at 1200 GMT



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
period of records see page 2/3

125

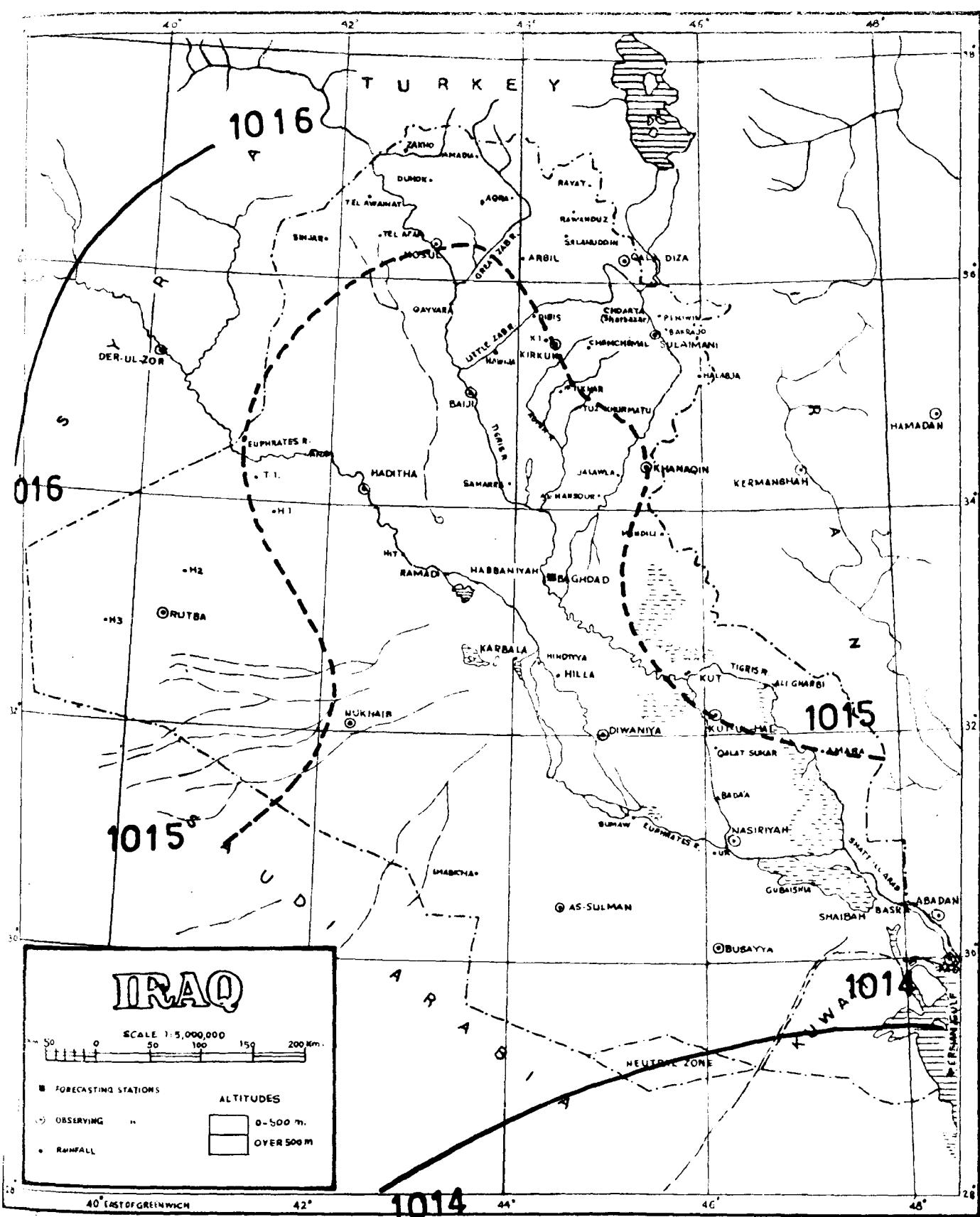
JANUARY



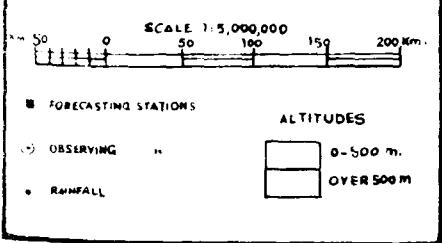
ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
period of records see page 2/3

126

MARCH



IRAQ



40° EAST OF GREENWICH

42°

1014

NEUTRAL ZONE

40°

40°

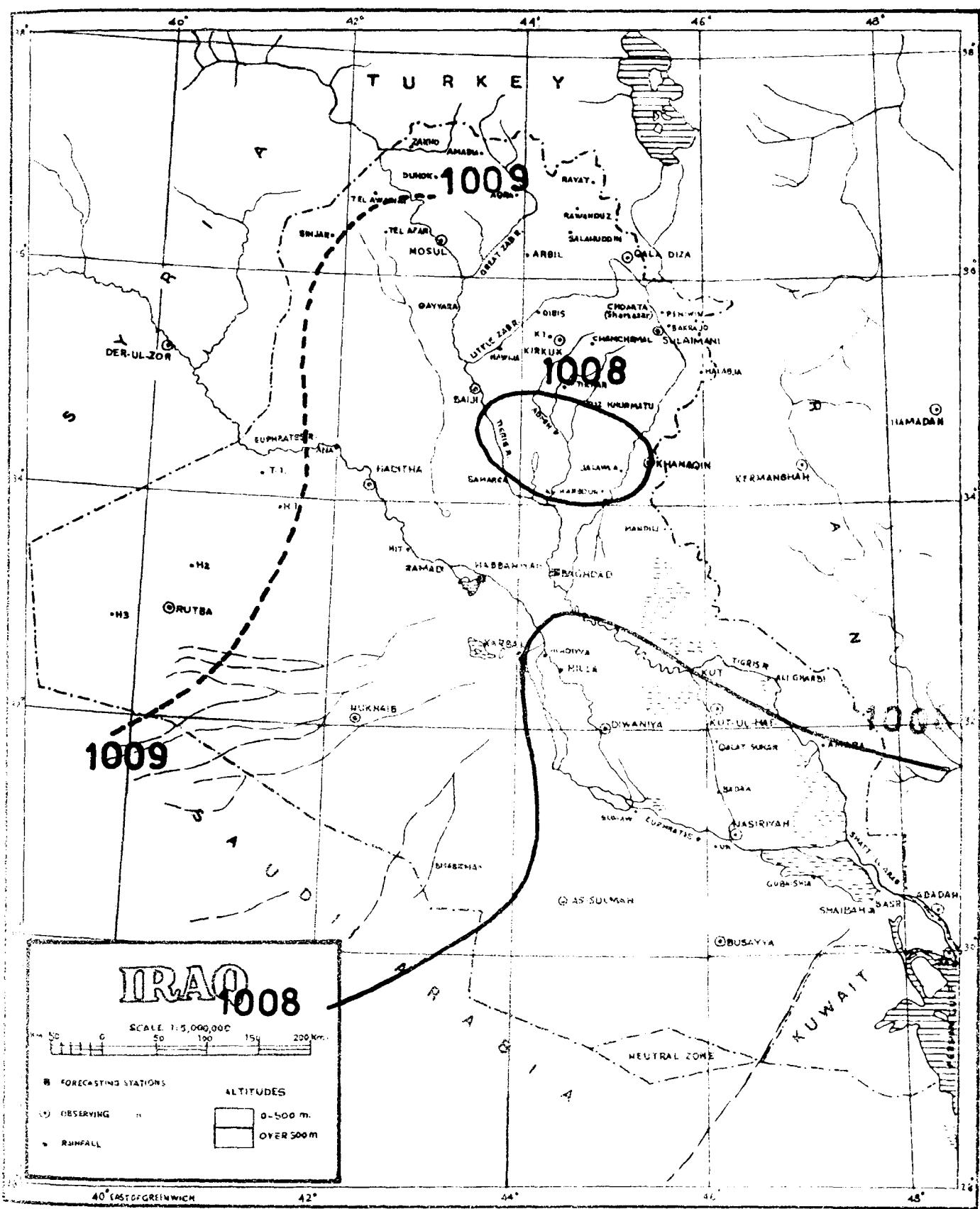
SURVEY PRESS. BAGHDAD

ATMOSPHERIC PRESSURE

Mean Monthly Sea Level Pressure
period of records see page 2/3

127

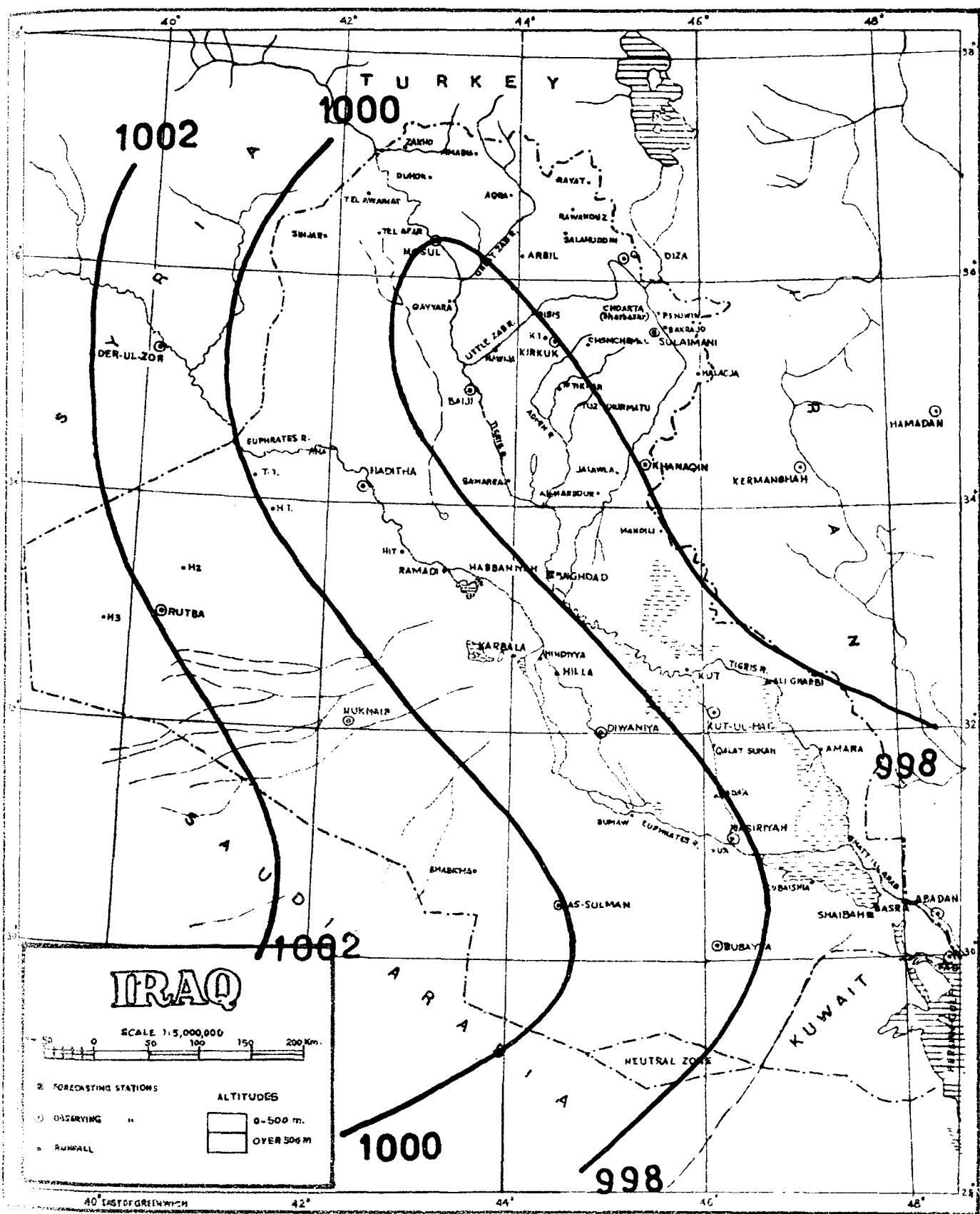
MAY



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
period of records see page 2/3

128

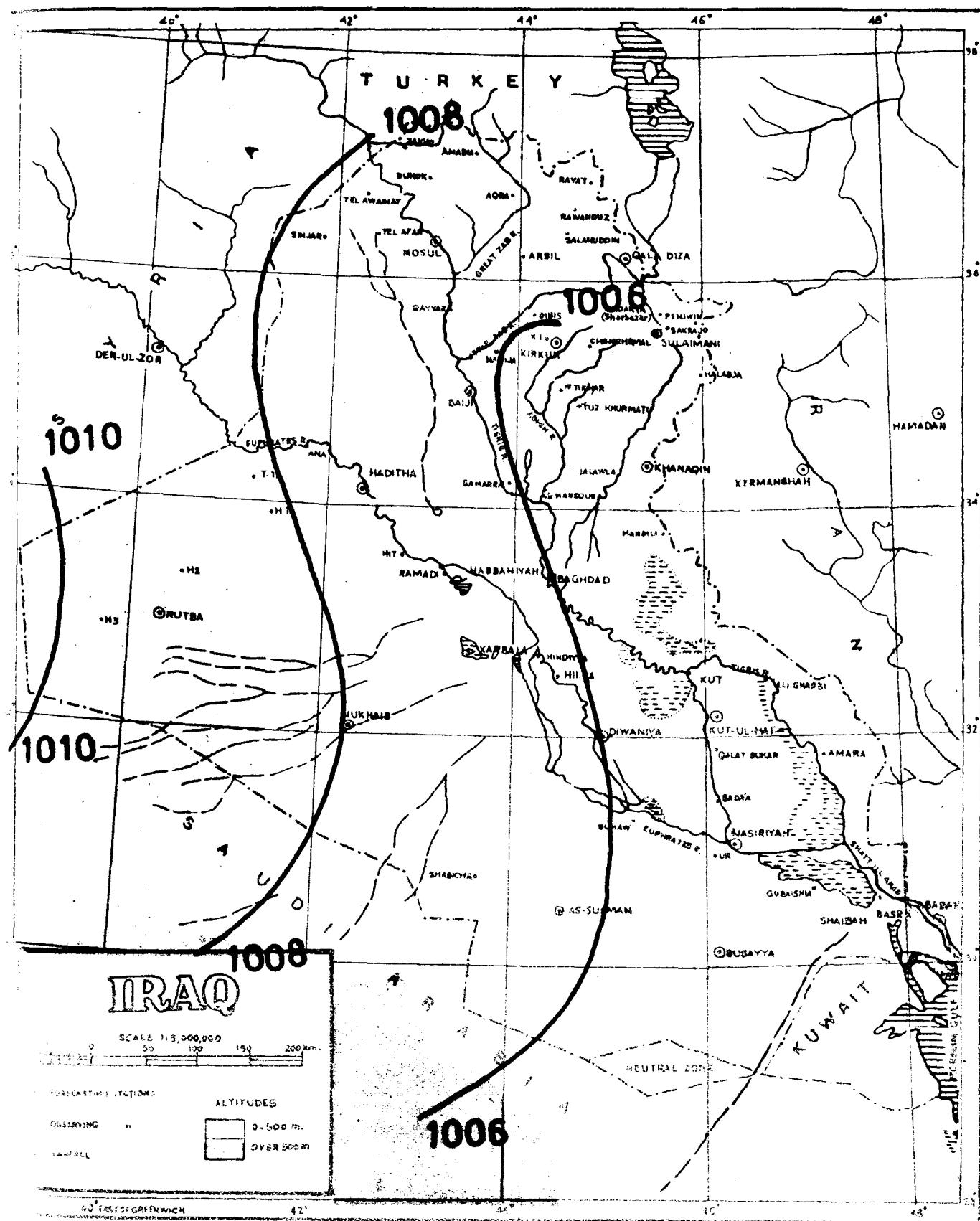
JULY



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
period of records see page 2/3

129

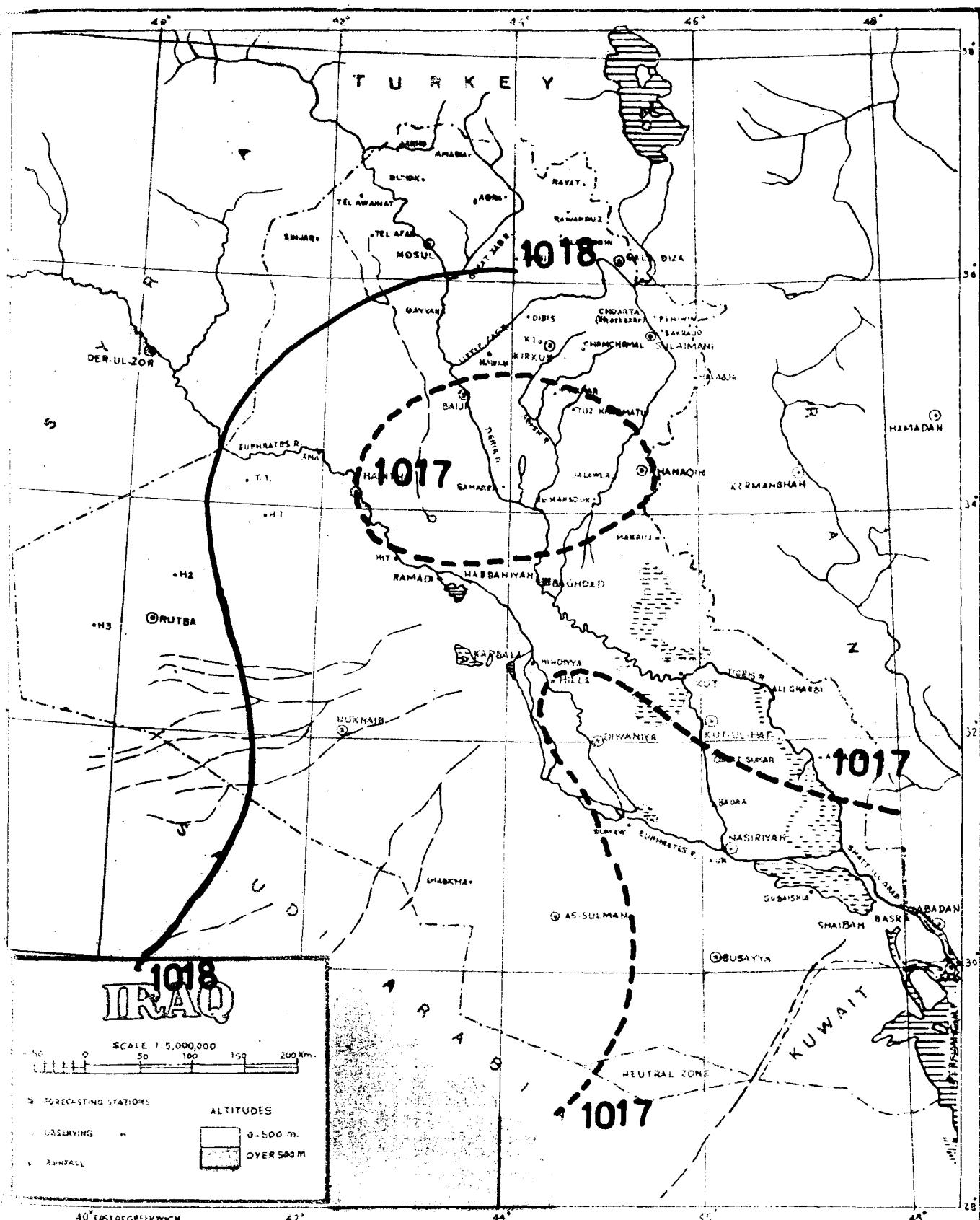
SEPTEMBER



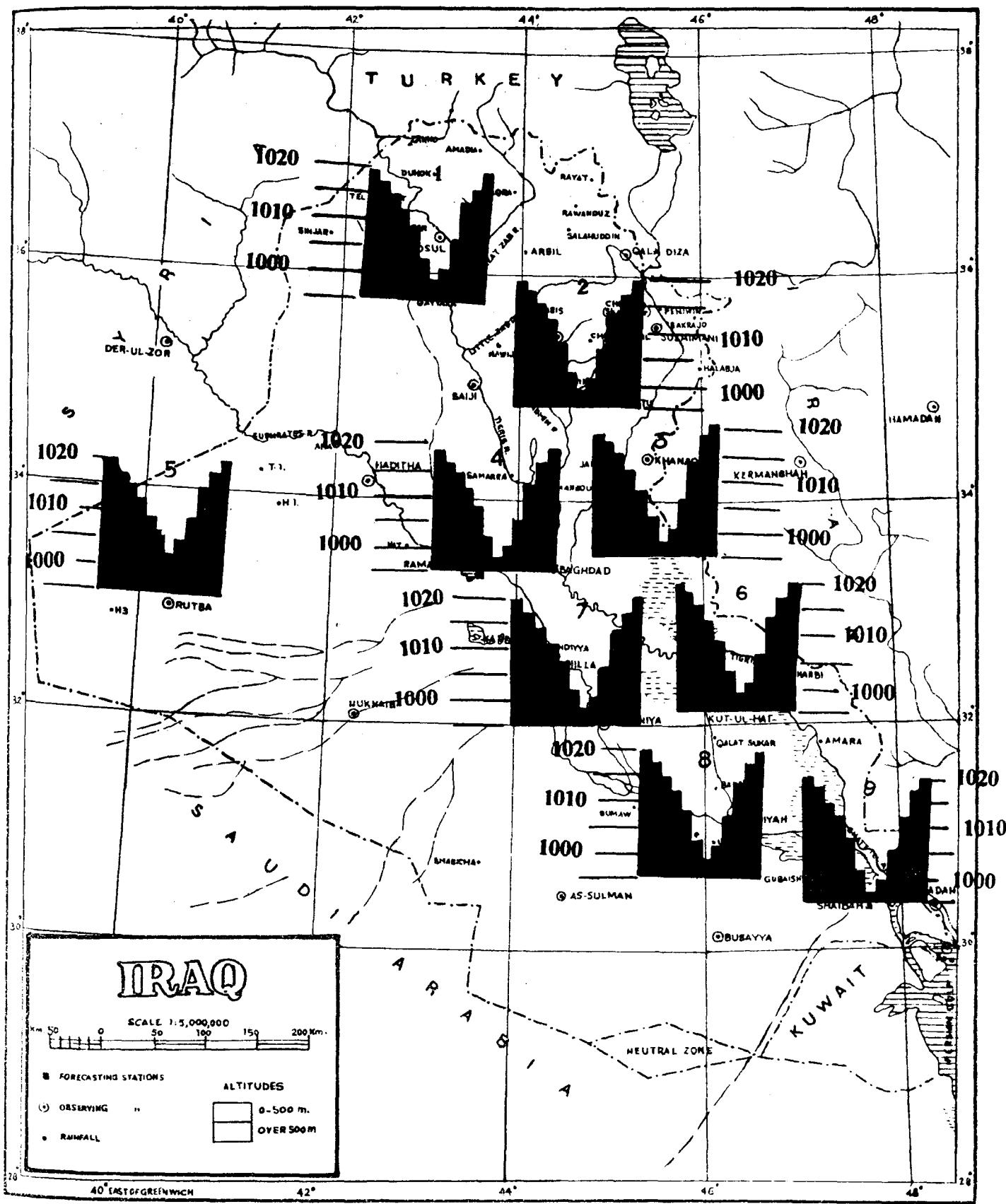
ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
period of records see page 2/3

130

NOVEMBER



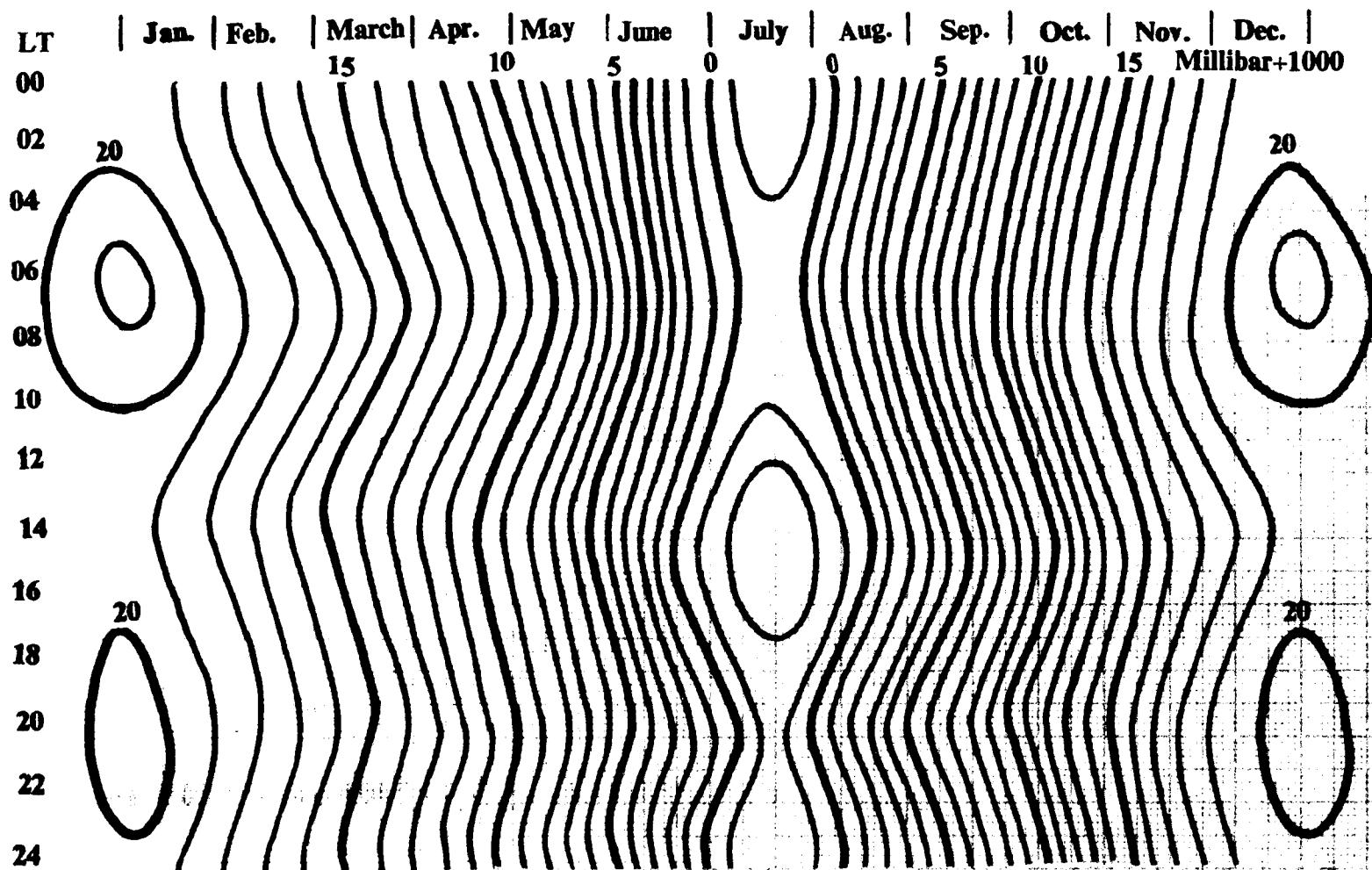
ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3



MOSUL 2.KIRKUK 3.KHANAQIN 4.BAGHDAD 5.RUTBAH 6.HAI 7.DIWANIYA
 8.NASIRIYA 9.BASRAH

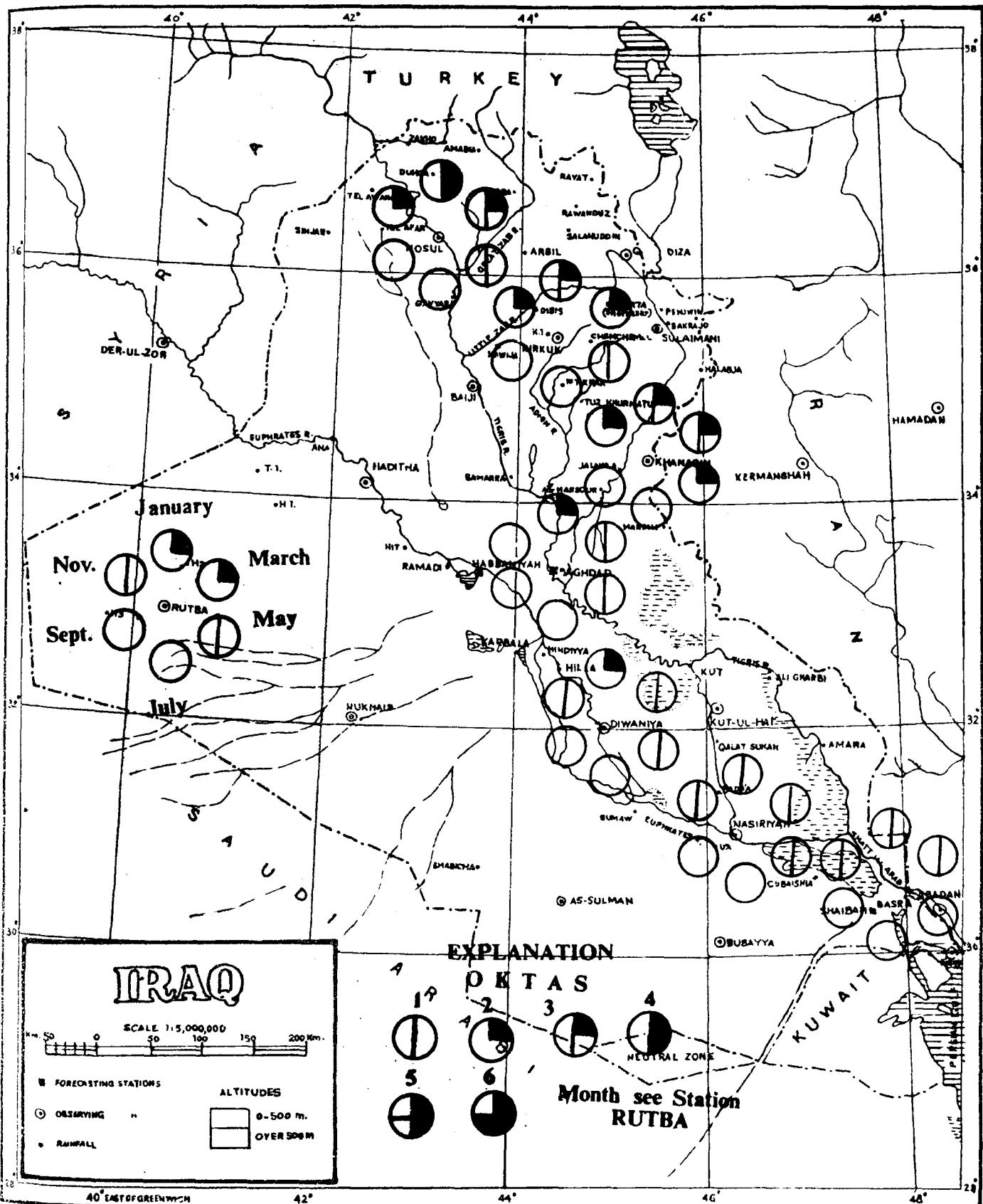
SURVEY PRESS BAGHDAD

MEAN PRESSURE FOR BAGHDAD AIRPORT
Reduced to MSL

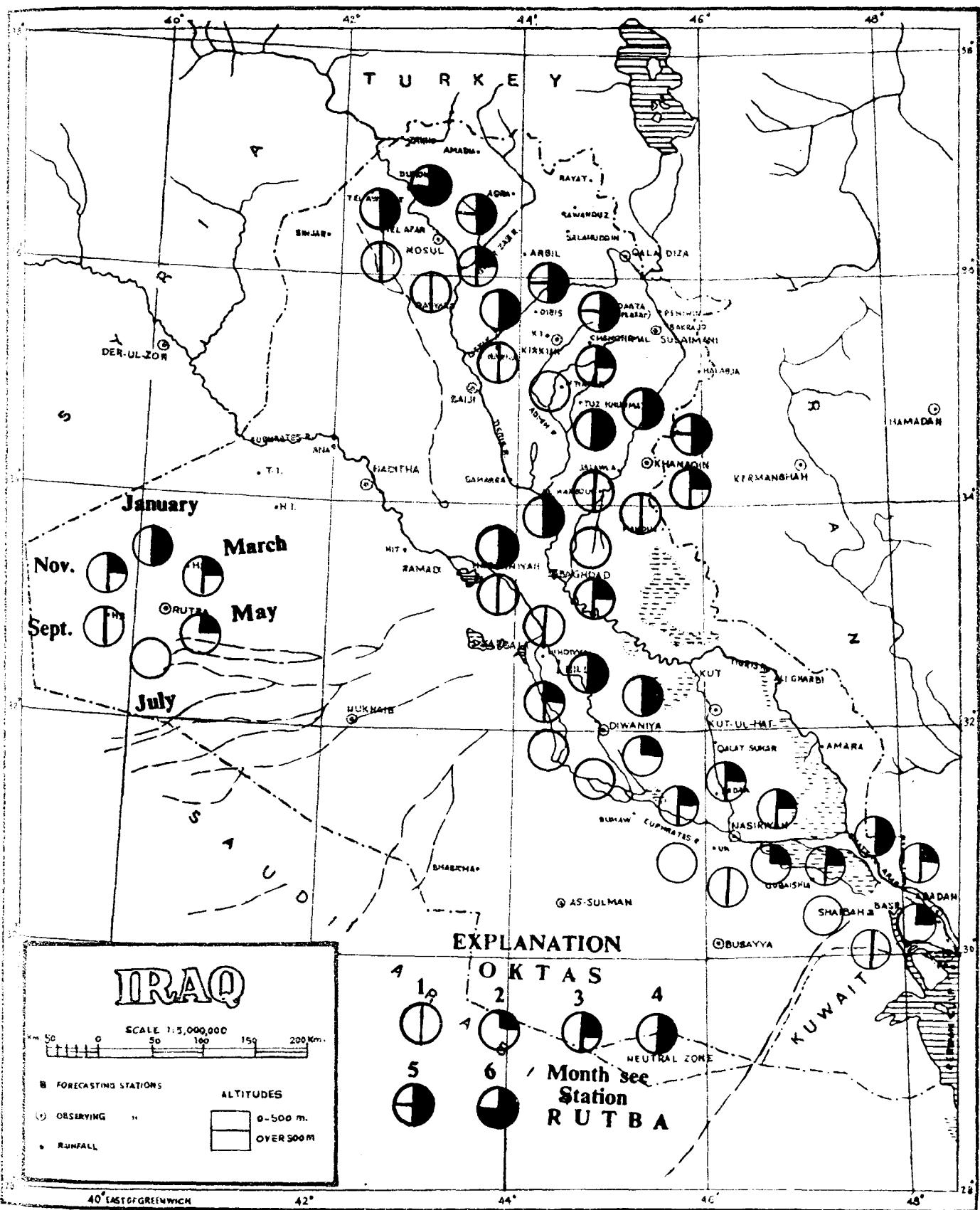


CLOUDINESS
Mean Monthly Amount of Low Clouds
at 0300 GMT (Base below 2500 m)
to the nearest Okta

133

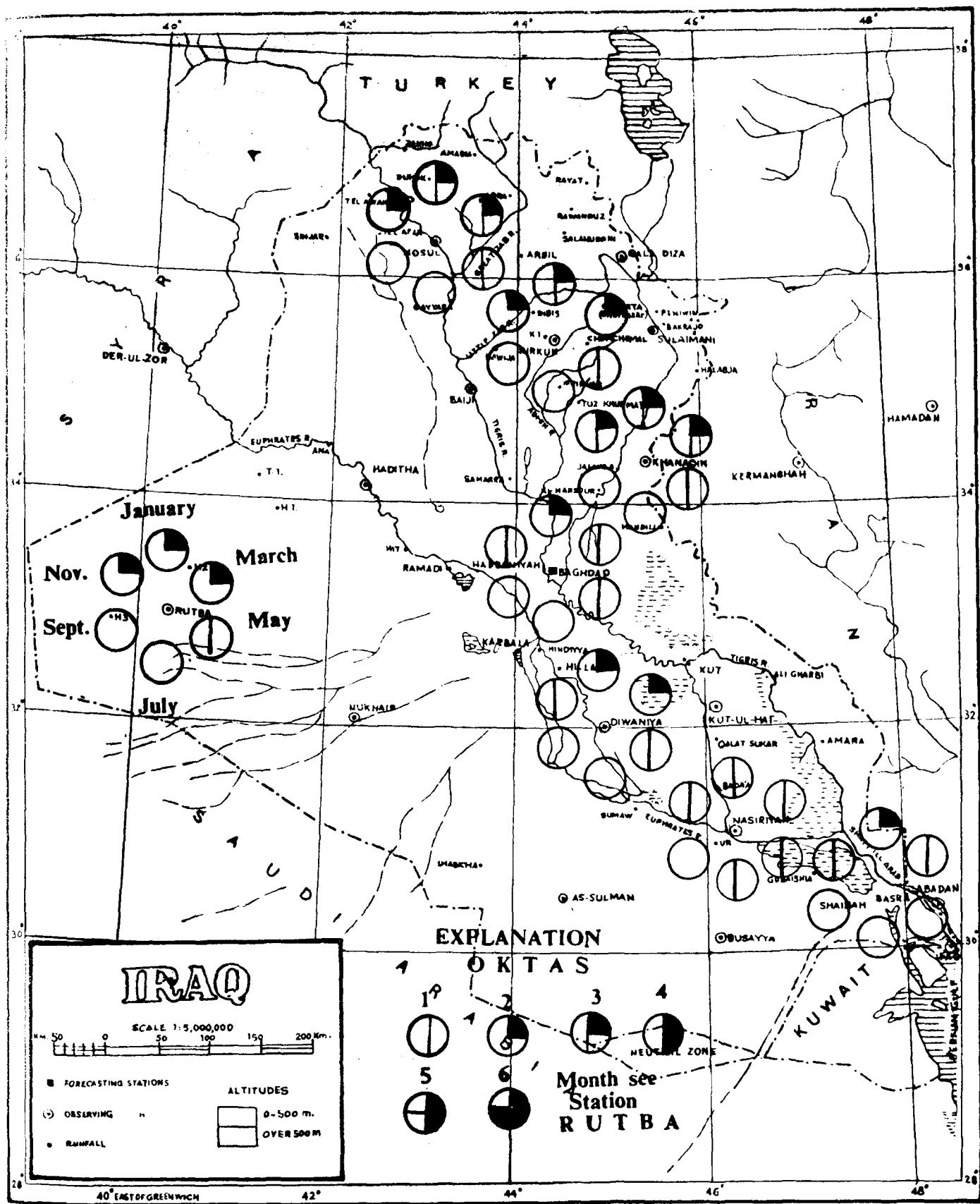


CLOUDINESS
Mean Monthly Amount of Total Clouds
at 0600 GMT.
to the nearest Okta

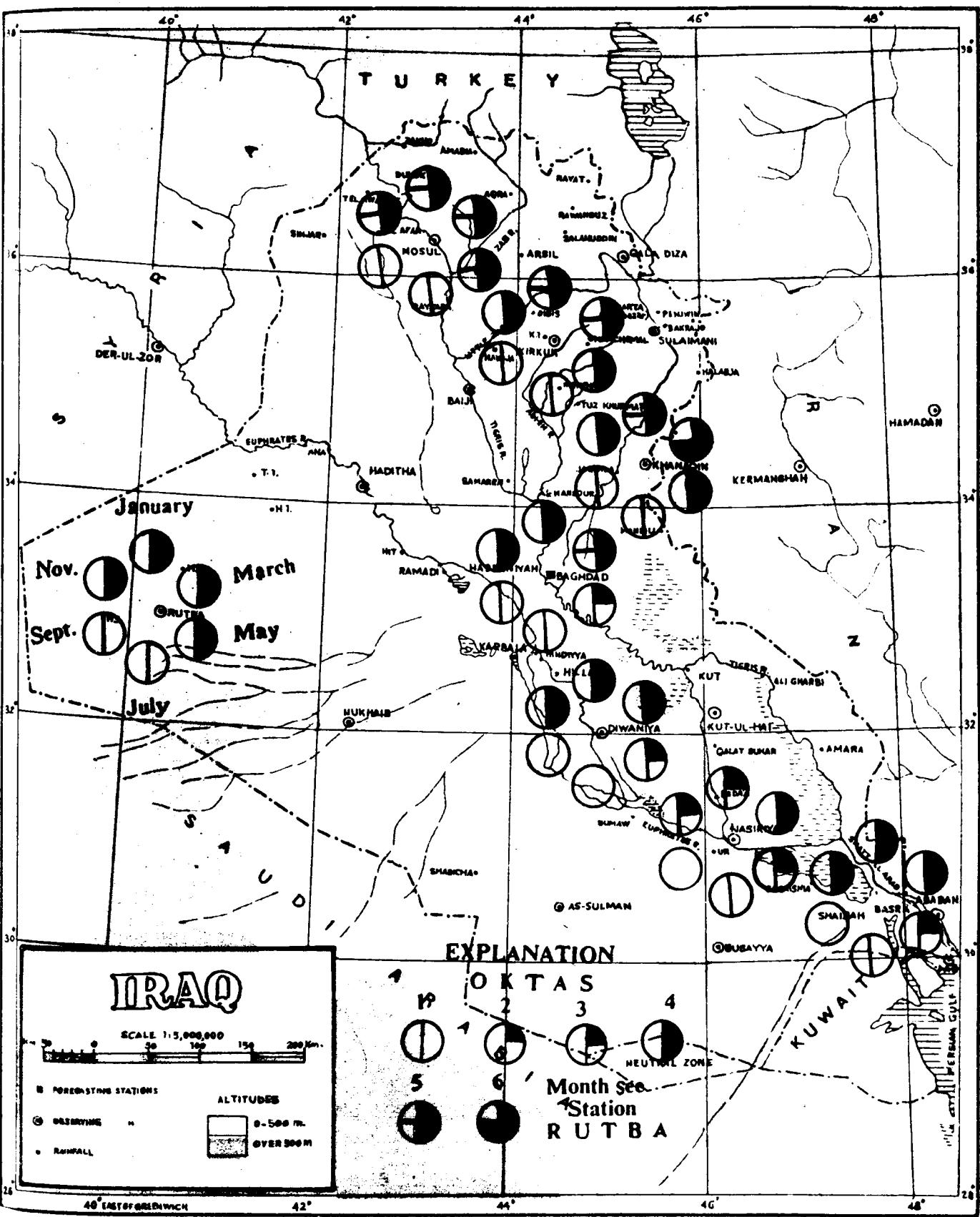


CLOUDINESS
 Mean Monthly Amount of Low Clouds
 at 0600 GMT (Base below 2500 m)
 to the nearest Okta

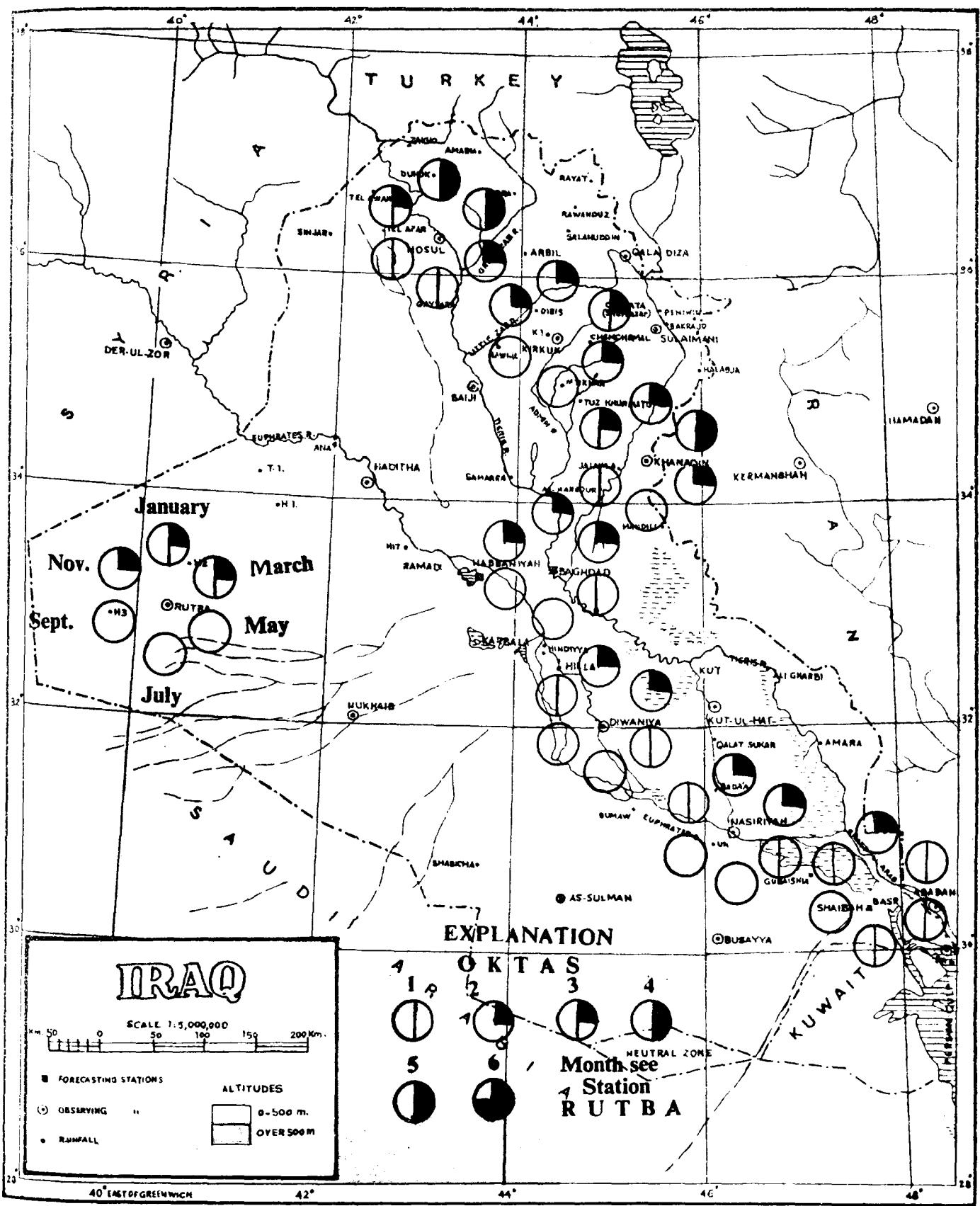
135



CLOUDINESS
Mean Monthly Amount of Total Clouds
at 1200 GMT
to the nearest Okta

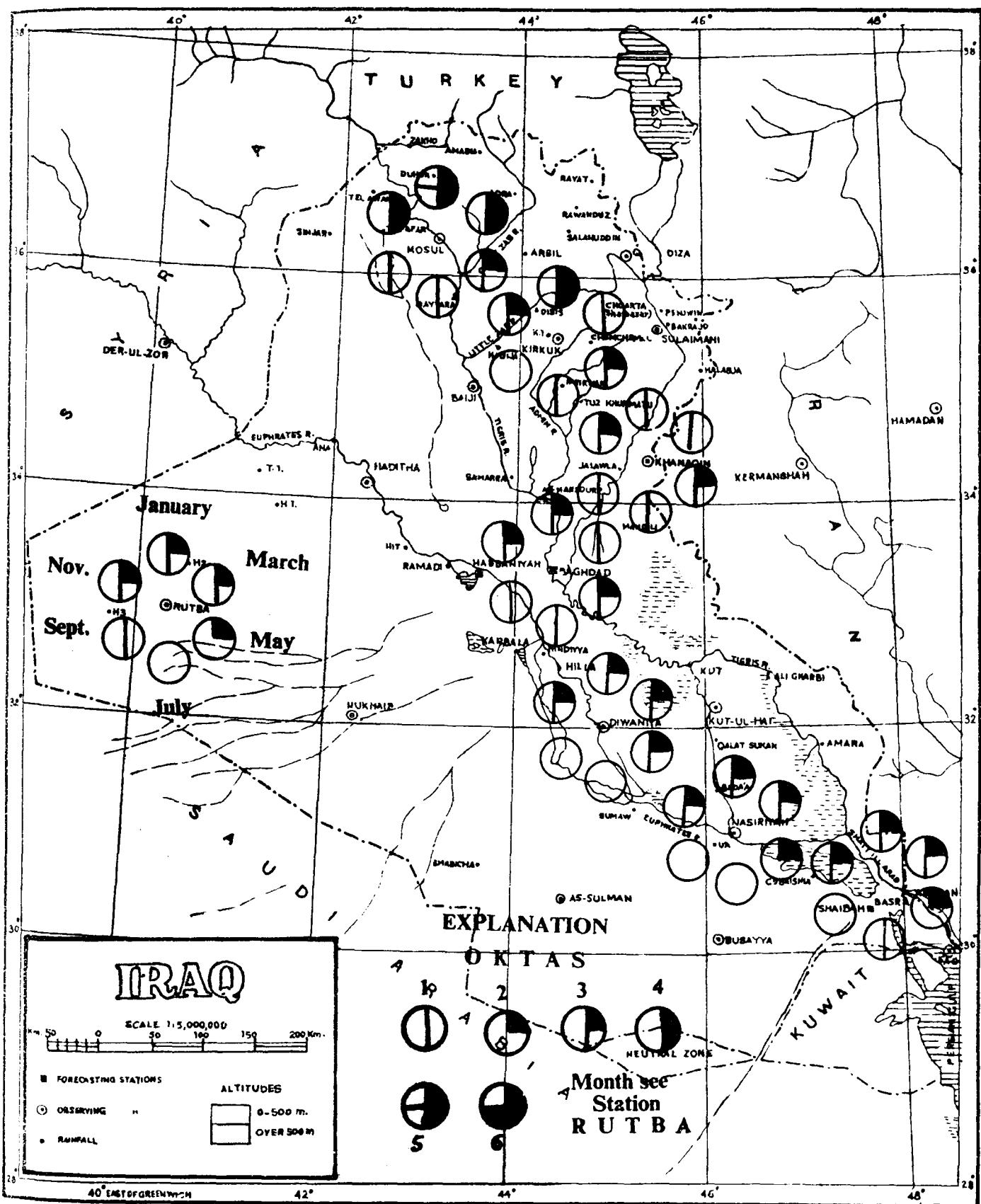


CLOUDINESS
 Mean Monthly Amount of Low Clouds
 at 1200 GMT (Base below 2500 m)
 to the nearest Okta



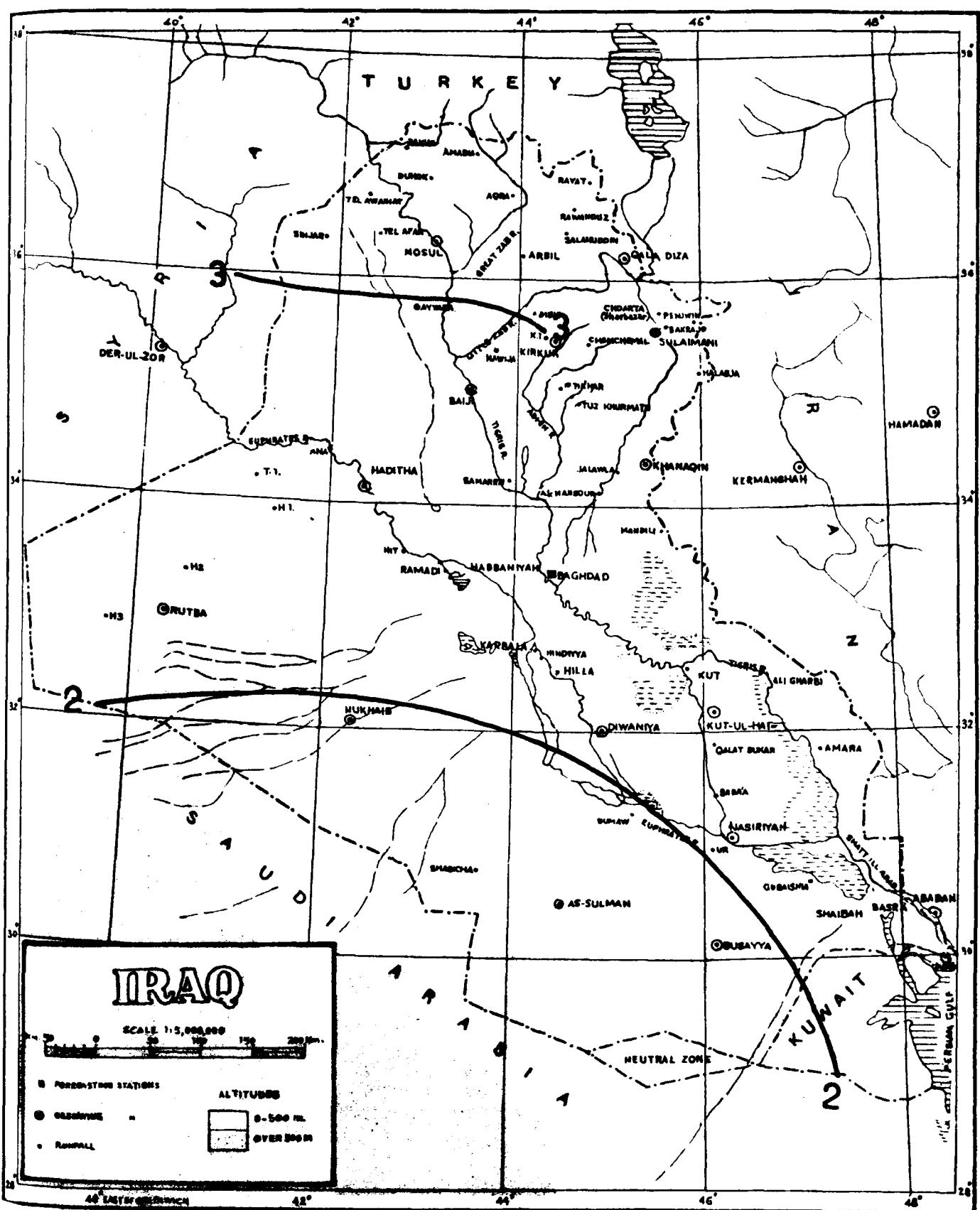
CLOUDINESS
Mean Monthly Amount of Total Clouds
at 0300 GMT
to the nearest Okta

138

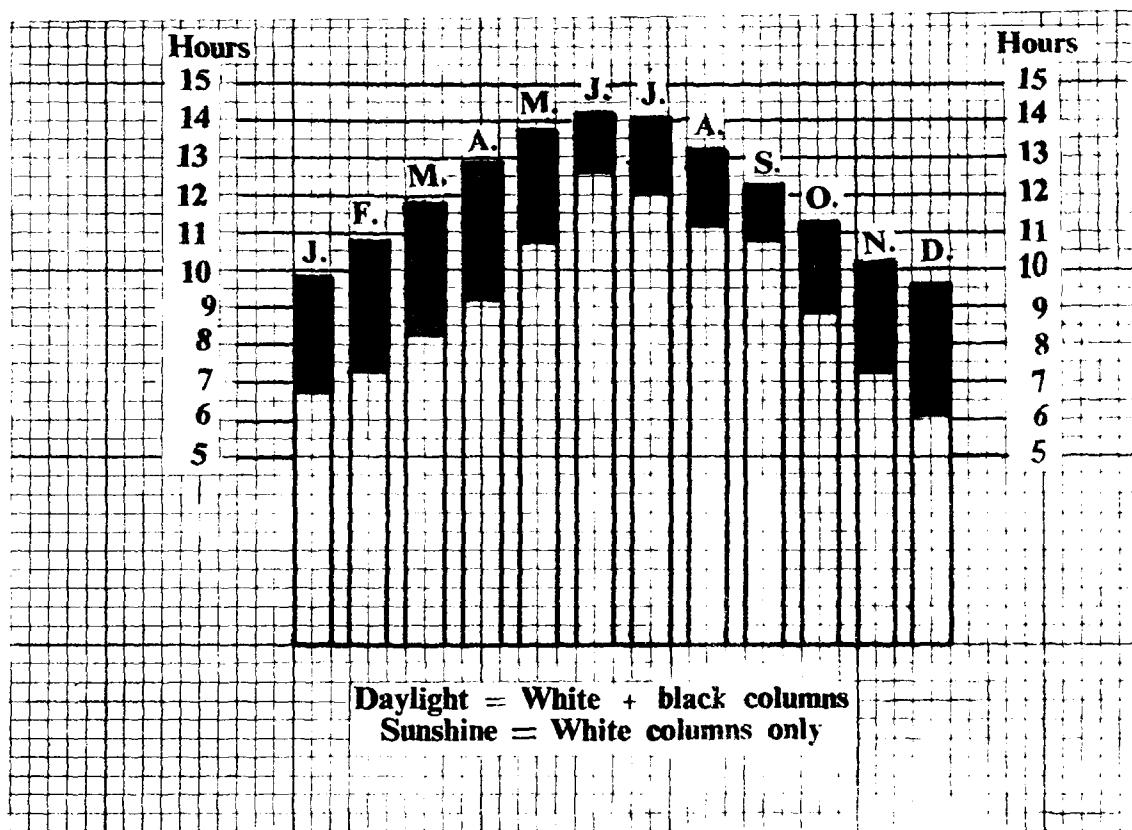


CLOUDINESS
Mean Annual Amount of Total Clouds
Oktas
period of records see page 2/3

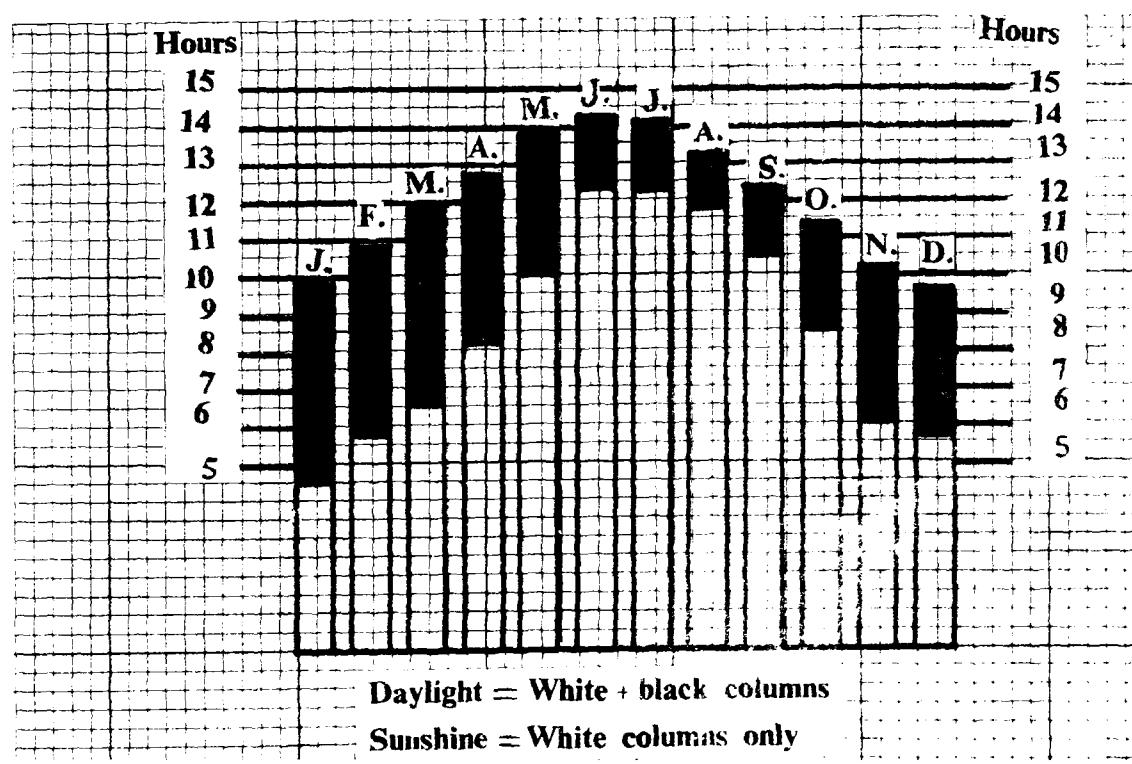
139



**Mean Duration of Daylight and Mean Hours of Sunshine
Observed for Each Month of the Year at Baghdad Airport
(Period of observations 1937—1956)**



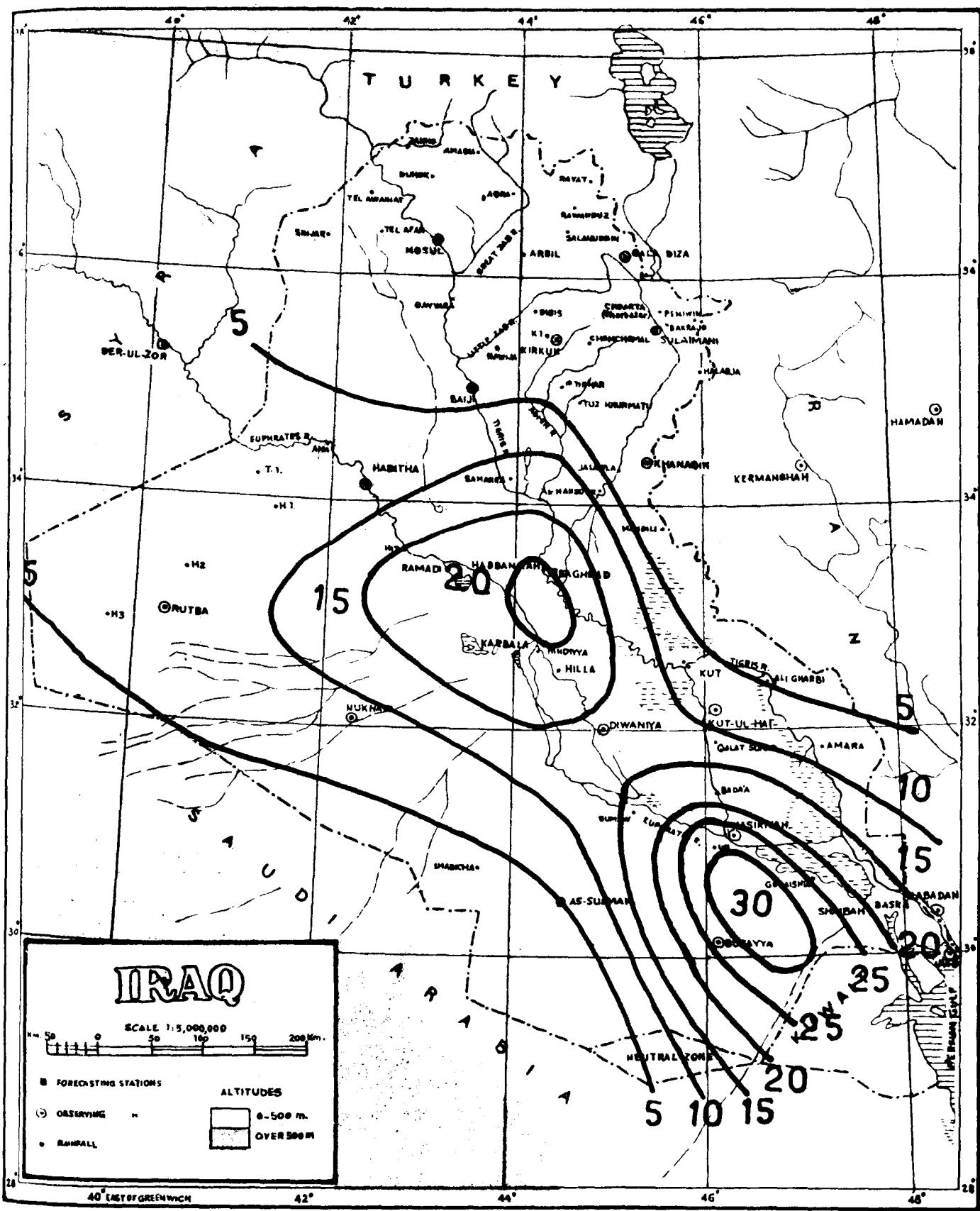
**Mean Duration of Daylight and Mean Hours of Sunshine
Observed for Each Month of the Year at Mosul Airport
(Period of observations 1938—1956)**



DUST

141

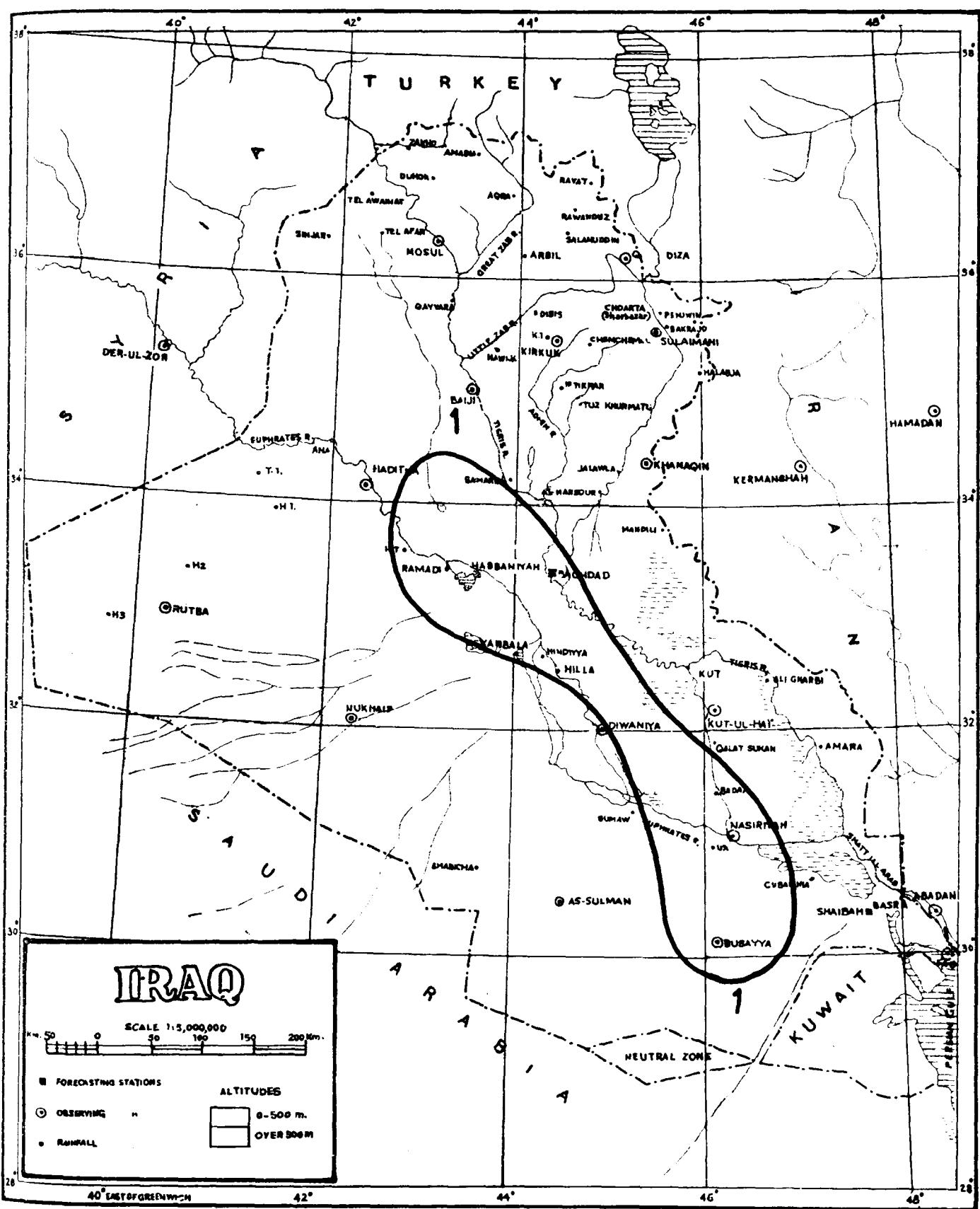
(Visibility less than 1 Km)
 Mean Annual Number of Days With Dust
 period of records see page 2/3



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

142

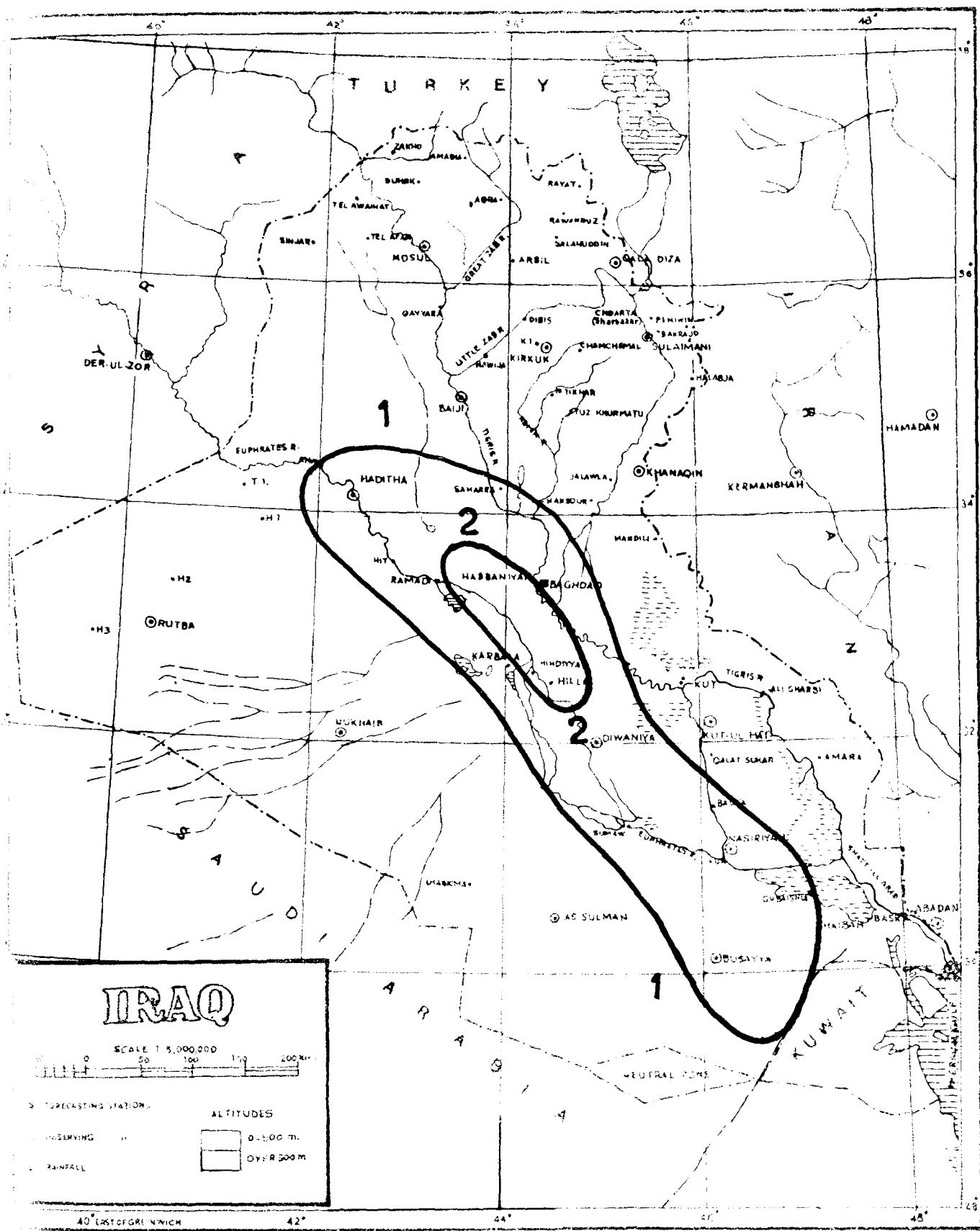
JANUARY



D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

143

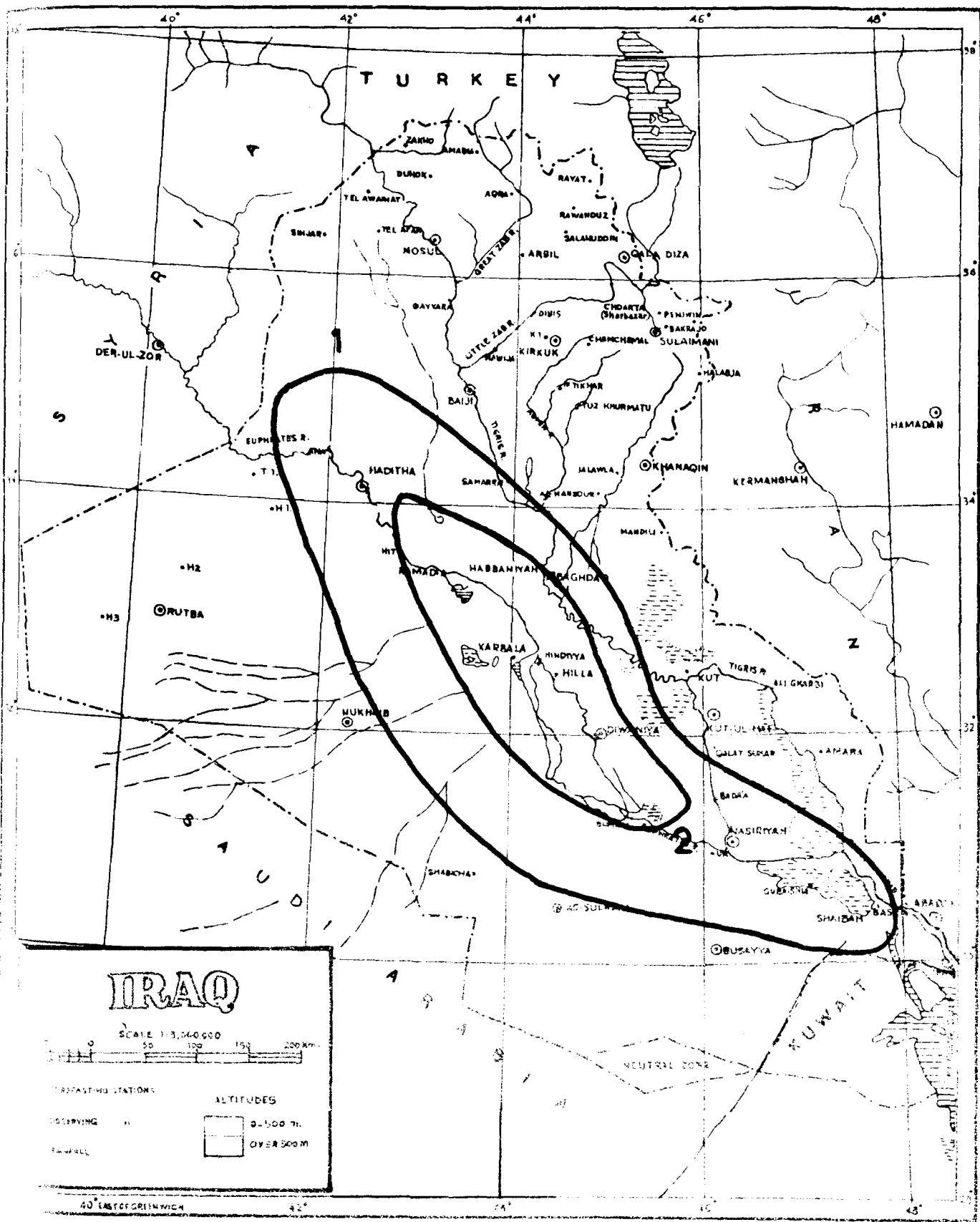
FEBRUARY



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

144

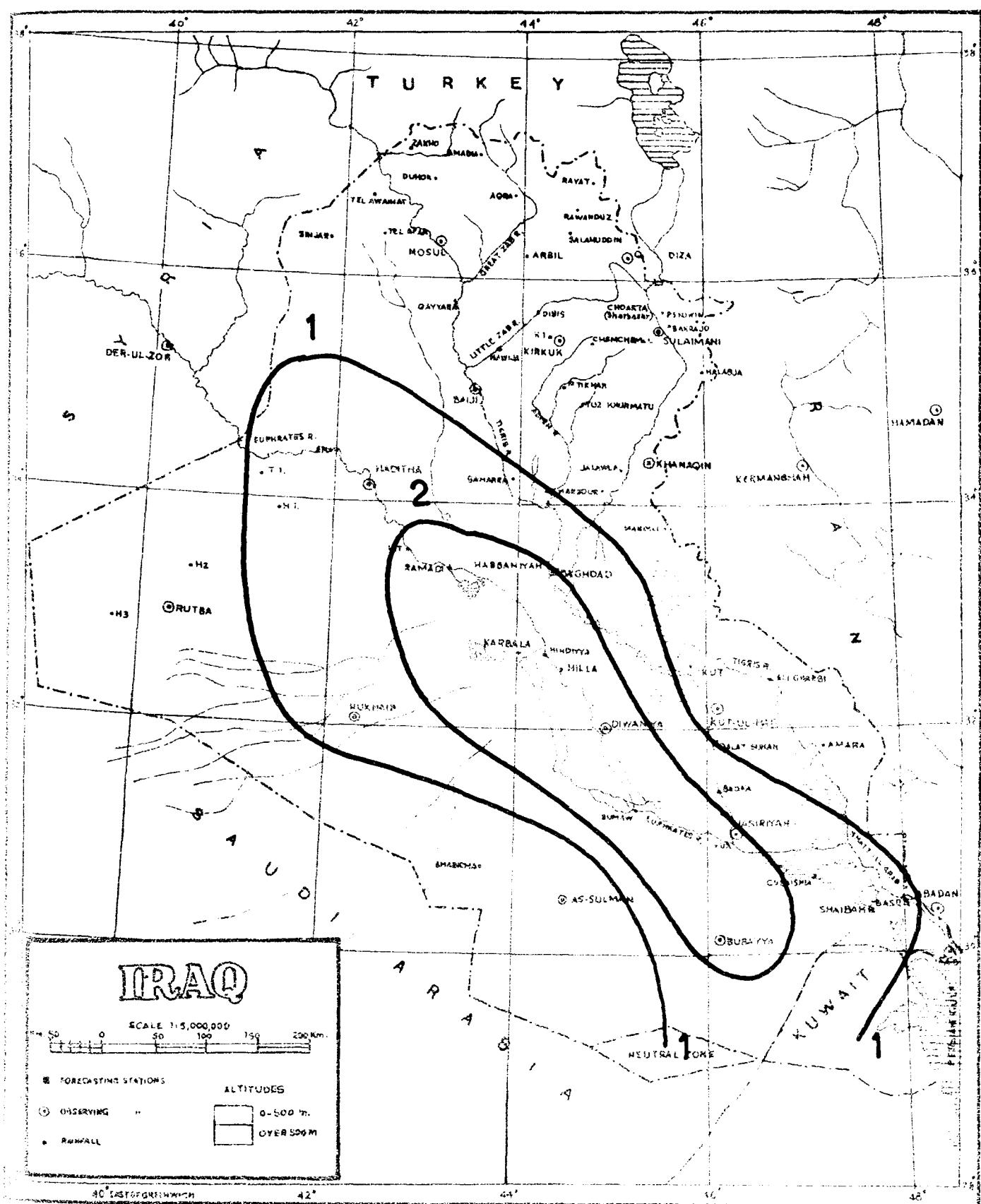
MARCH



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

145

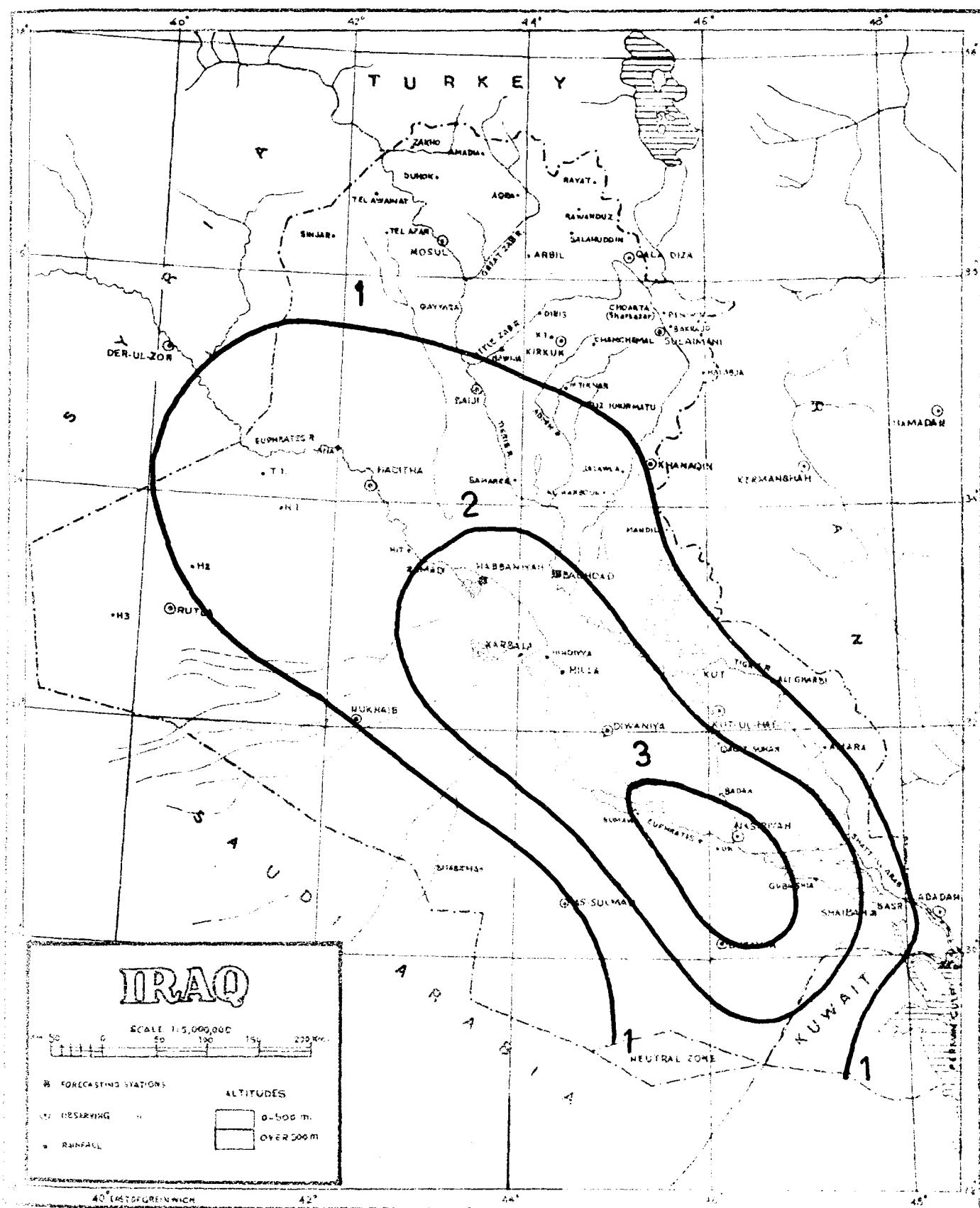
APRIL



D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

146

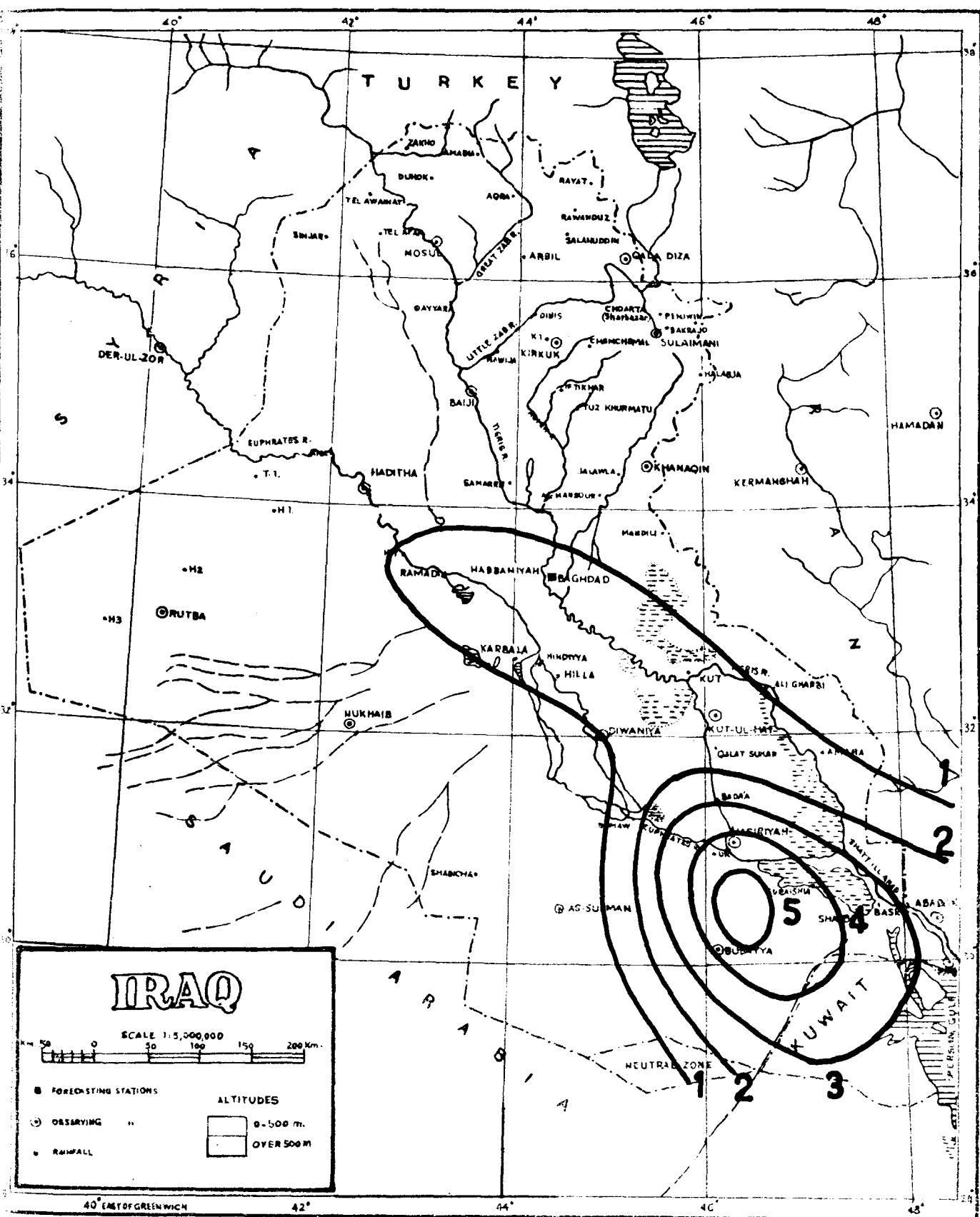
MAY



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

147

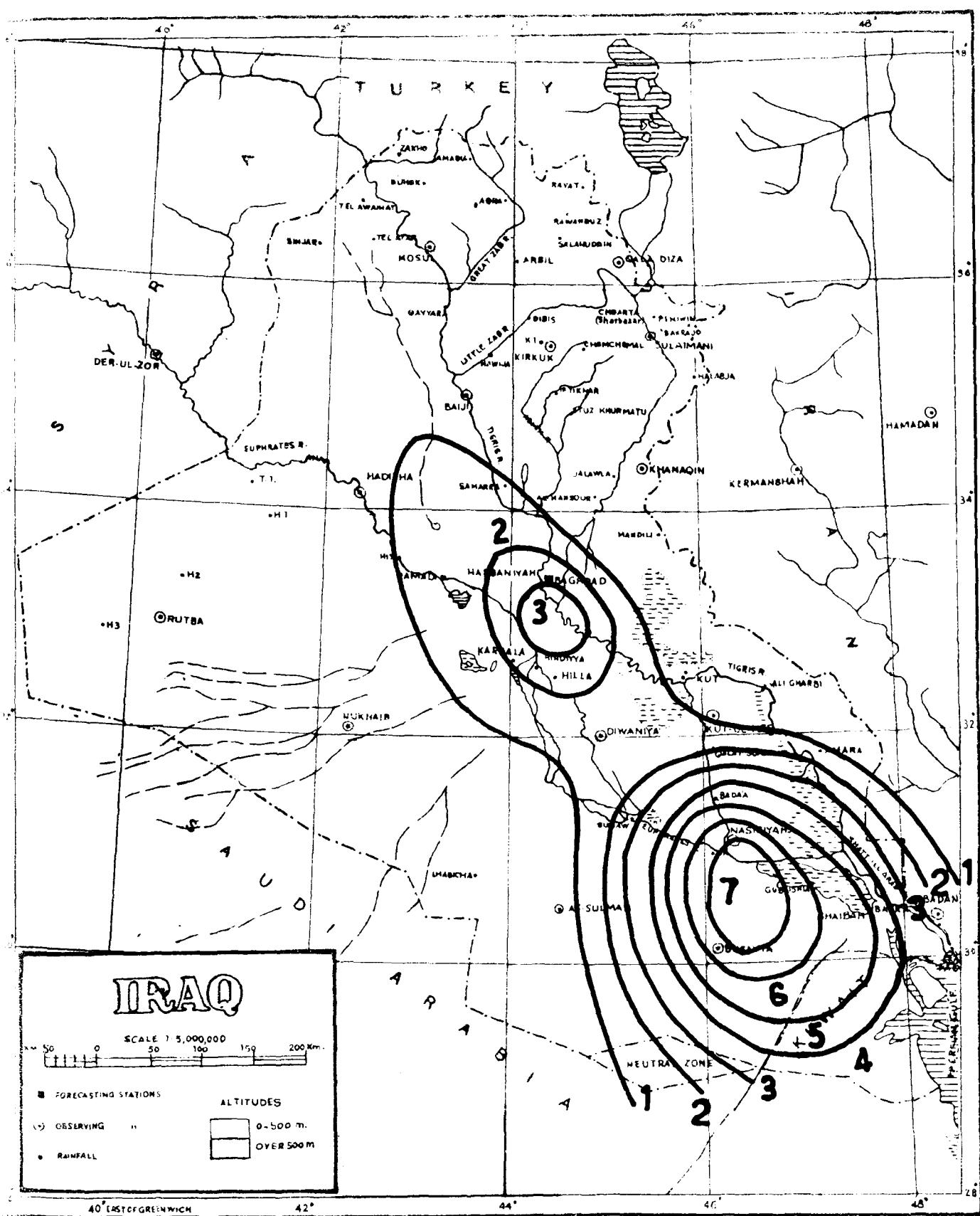
JUNE



D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

148

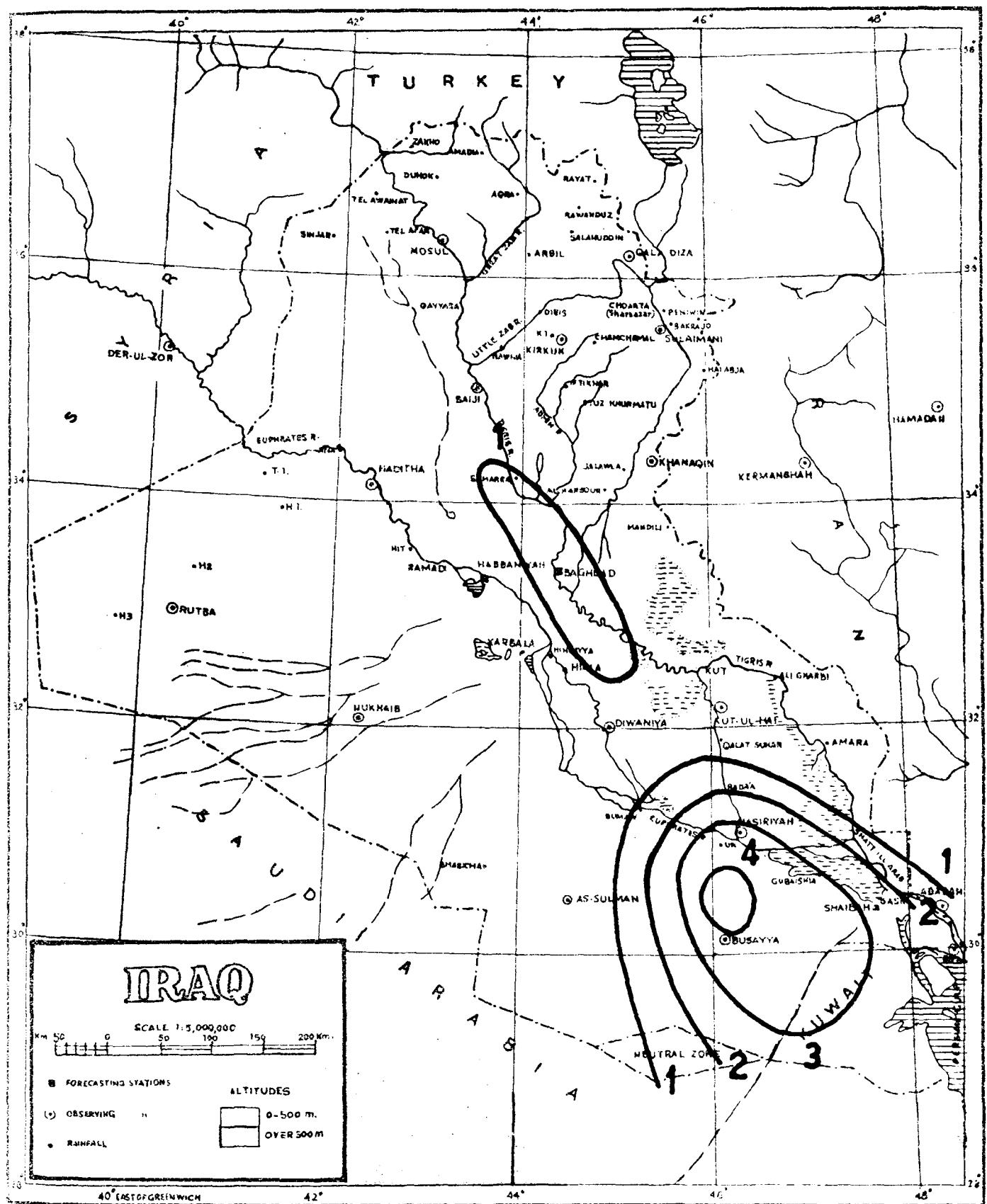
JULY



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

149

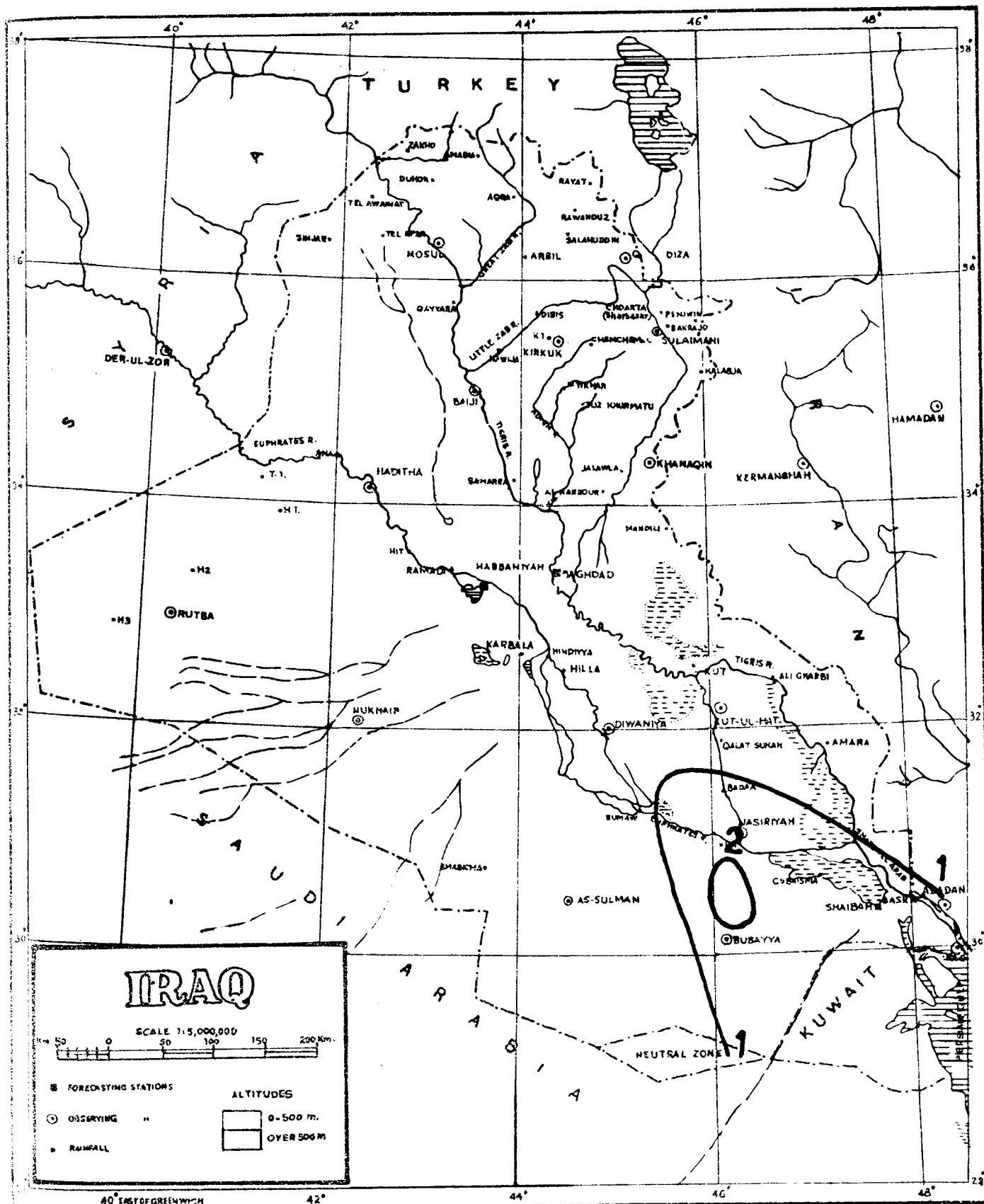
AUGUST



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 period of records see page 2/3

150

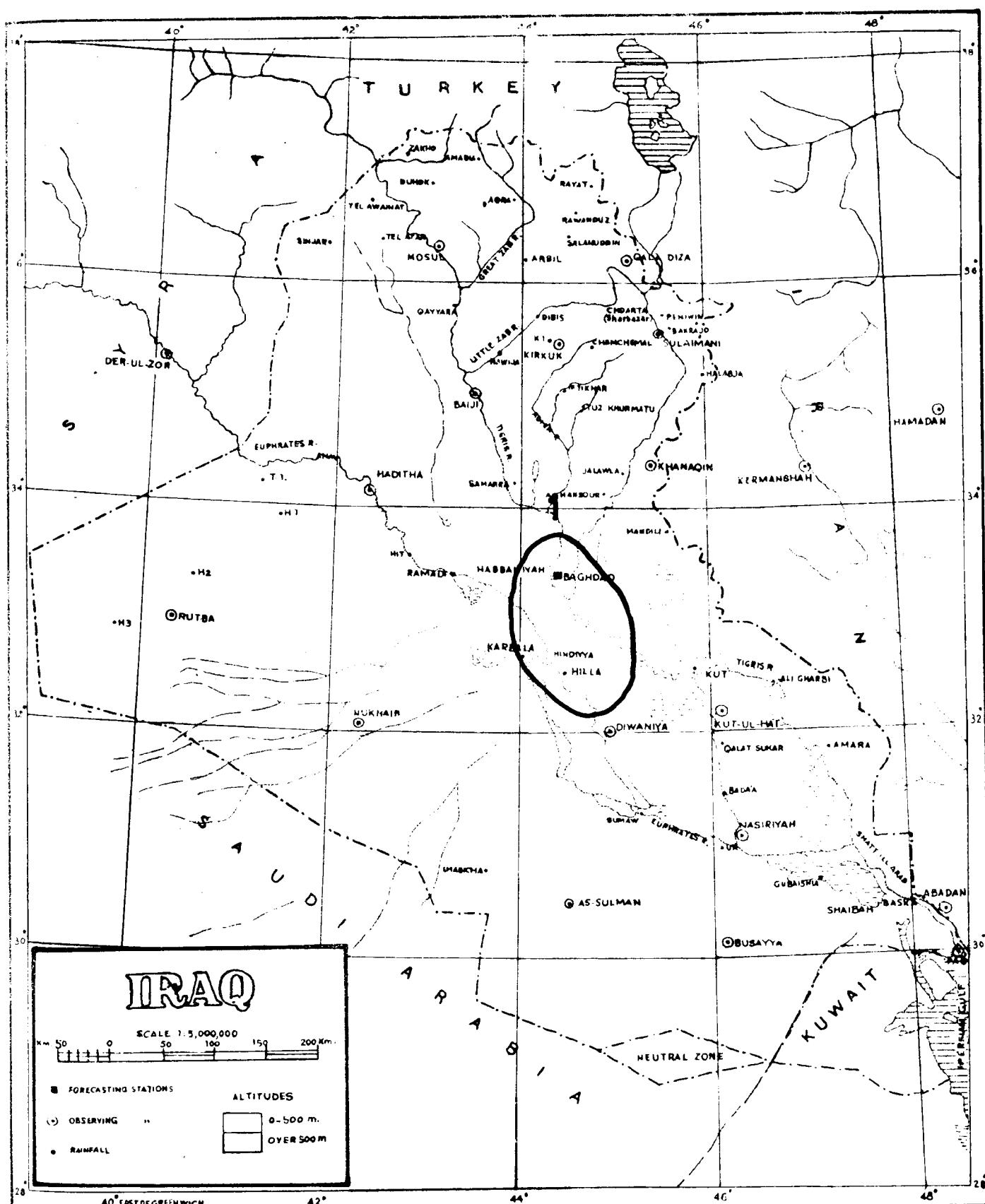
SEPTEMBER



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 Period of records see page 2-3

151

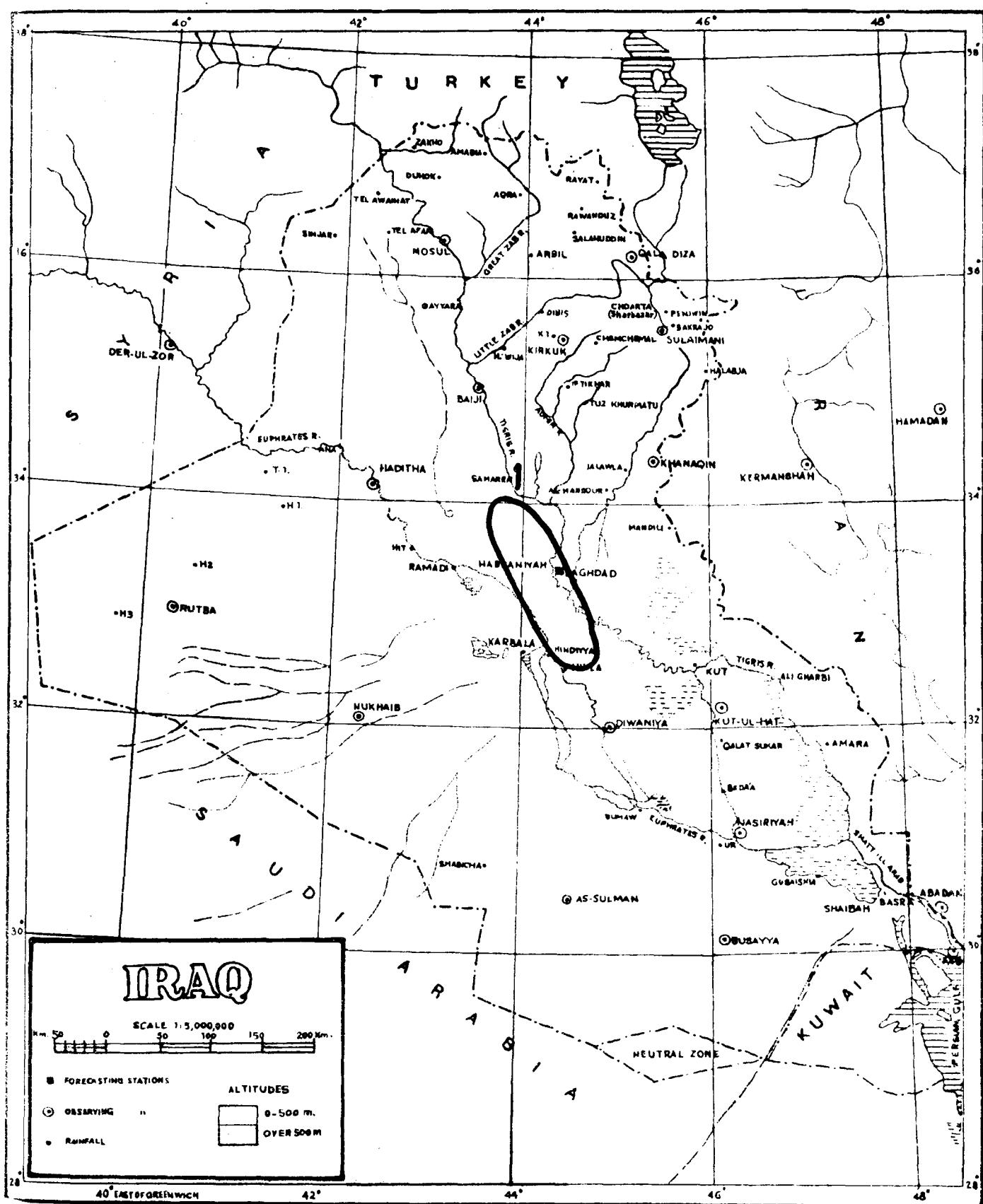
OCTOBER



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 Period of records see page 2-3

152

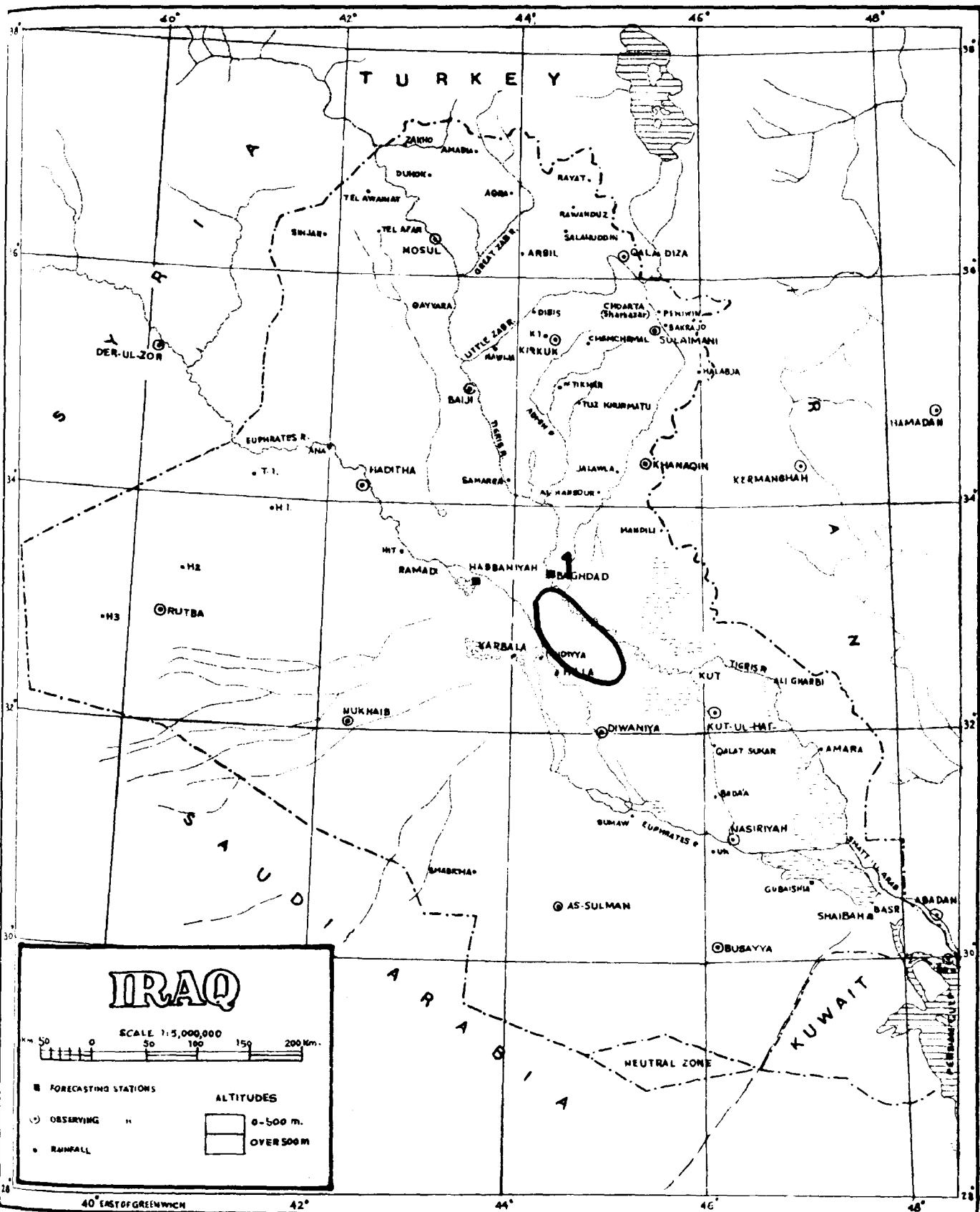
NOVEMBER



D U S T
 (Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
 Period of records see page 2-3

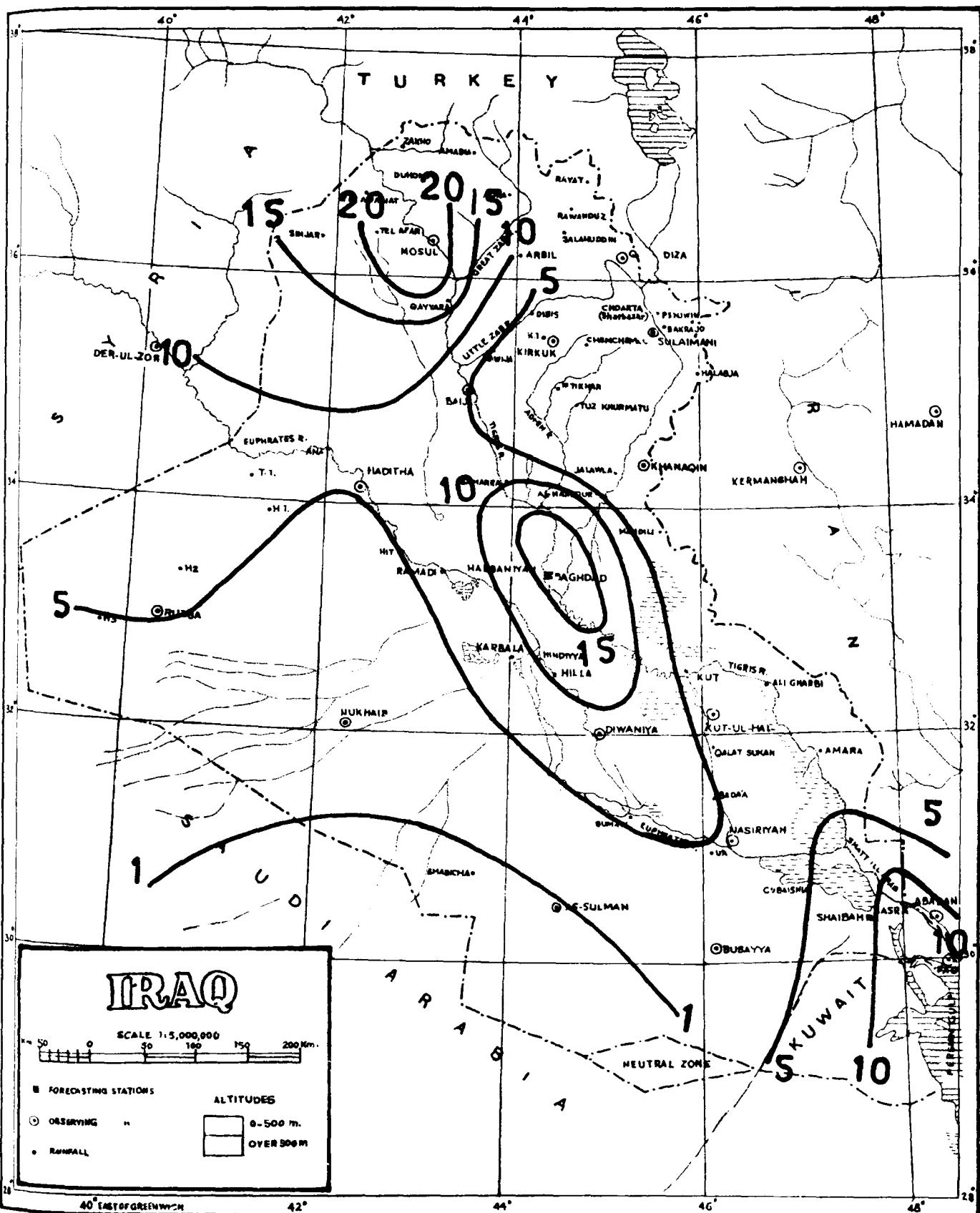
153

DECEMBER



F O G
Mean Annual Number of Days with Fog
Period of Records see Page 2-3

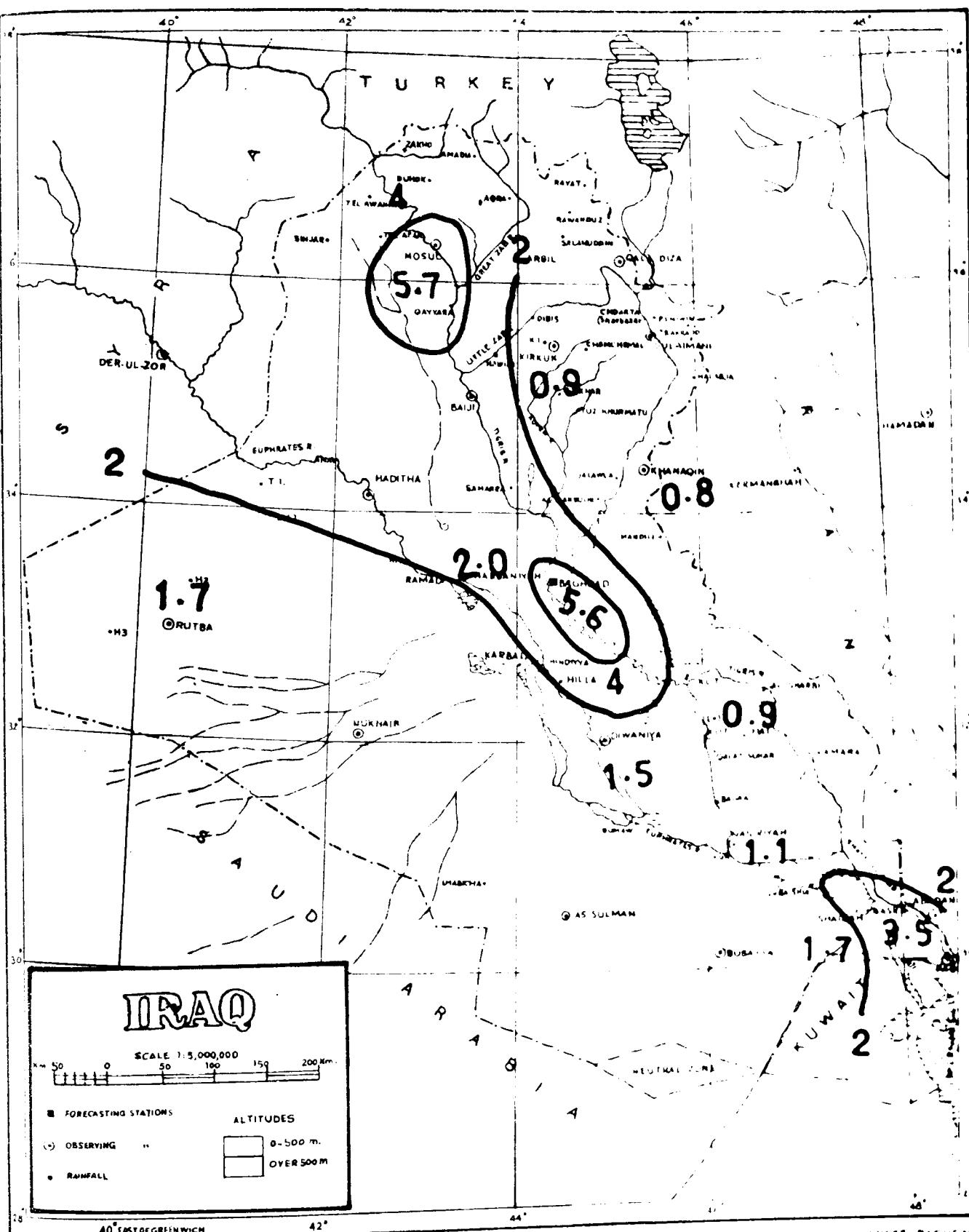
154



F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

155

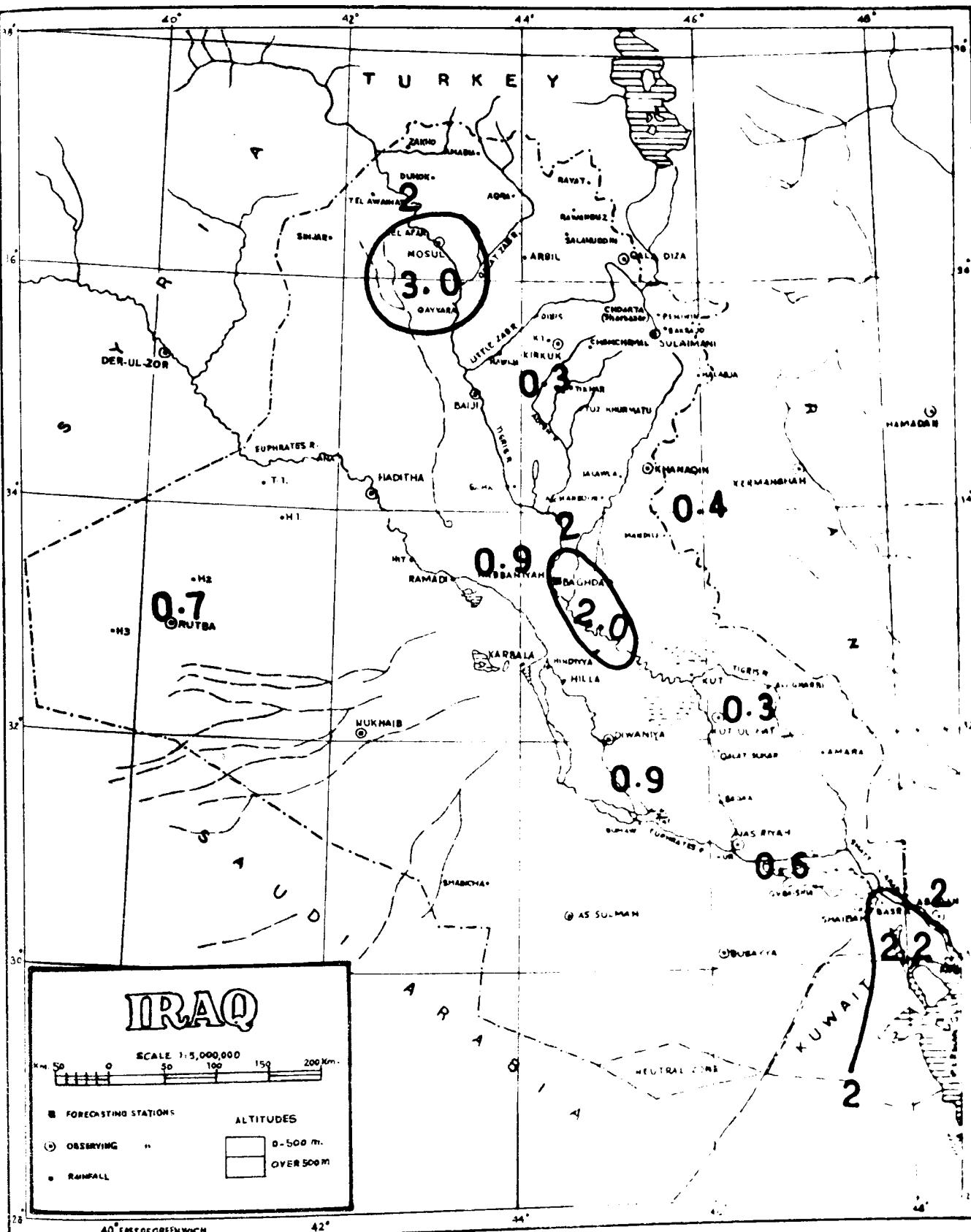
JANUARY



F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

156

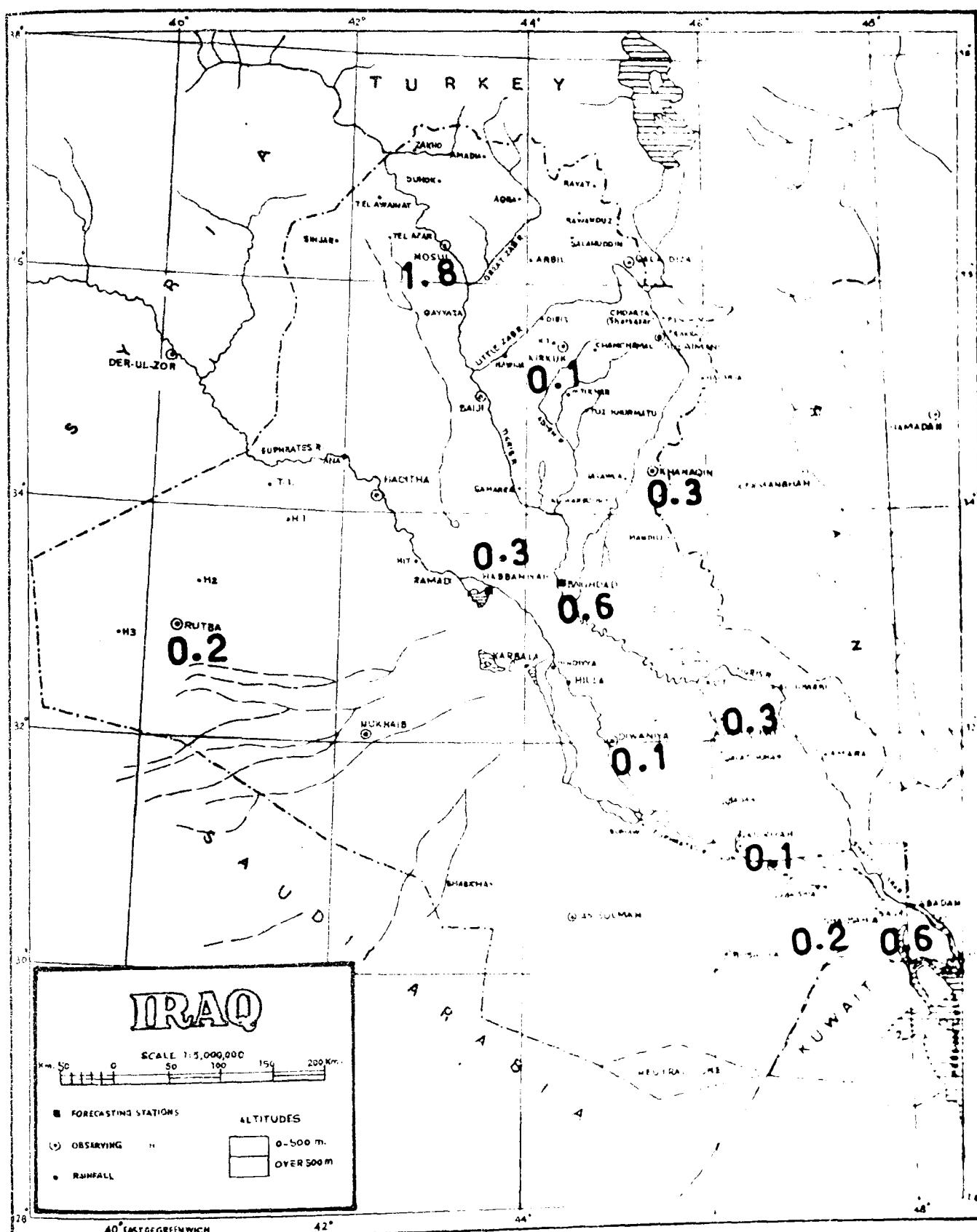
FEBRUARY



F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

157

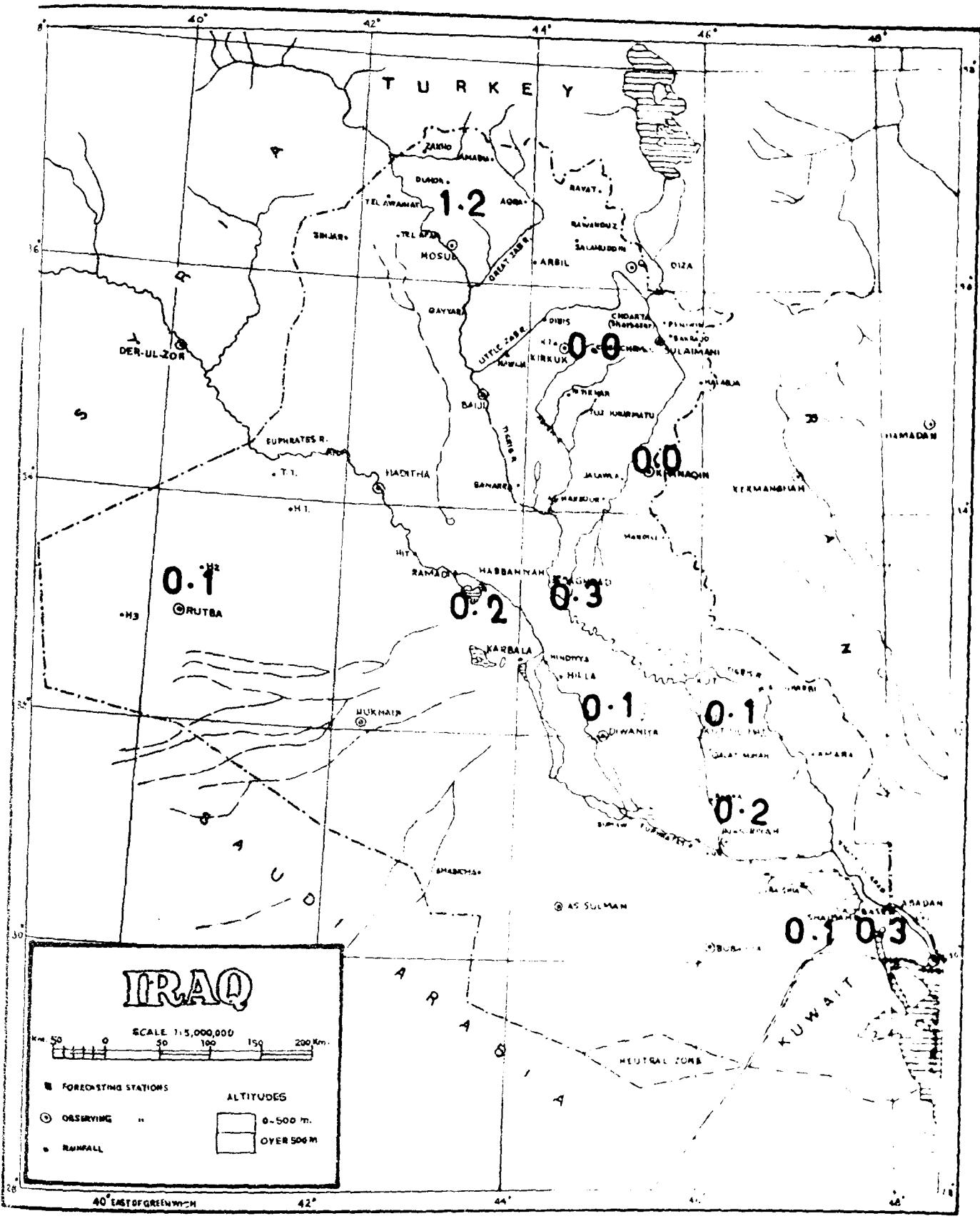
MARCH



F O G
Mean Monthly Number of Days with Fog
period of records see page 2, 3

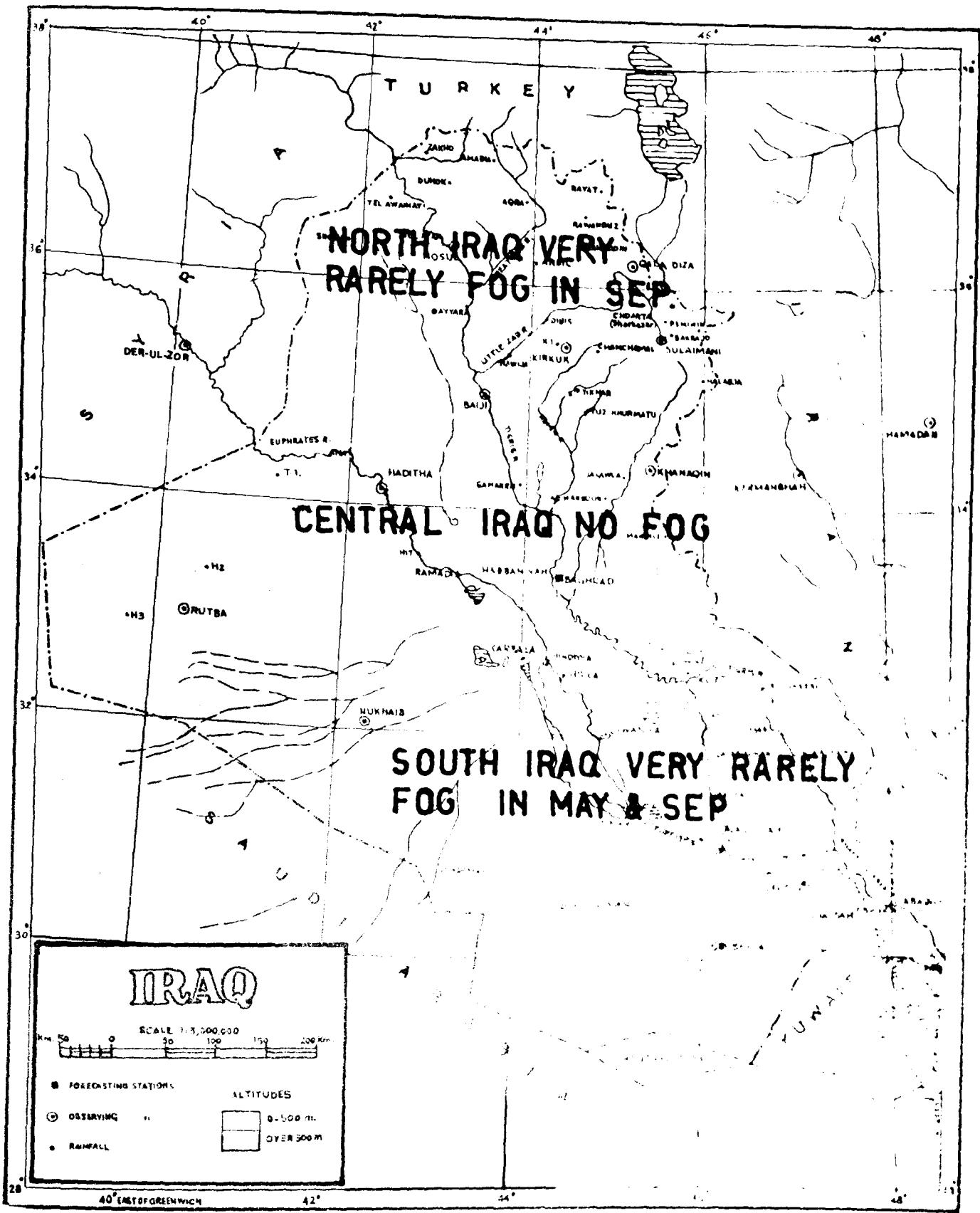
158

APRIL



F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

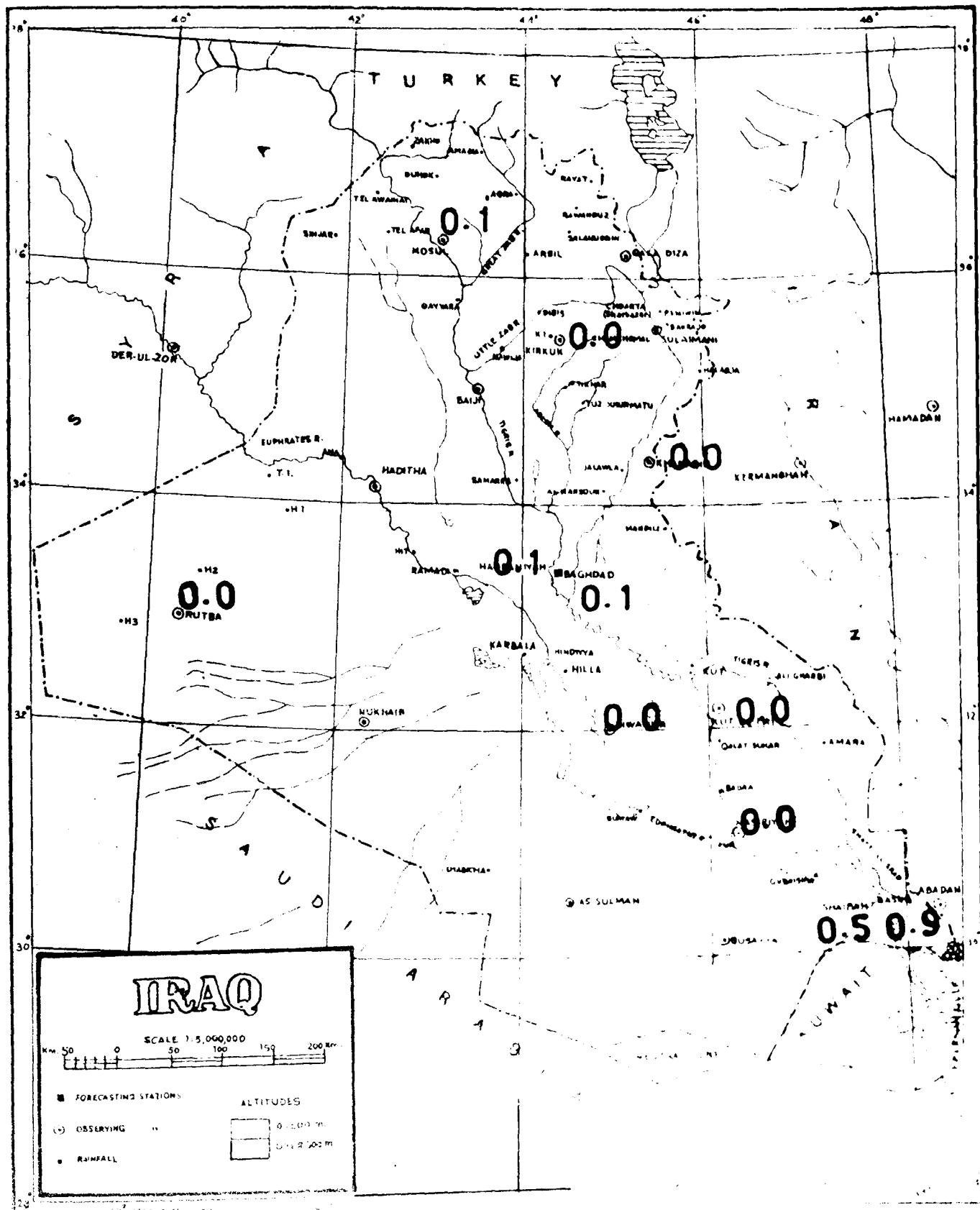
MAY AUG
JUN. SEP
JUL.



F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

160

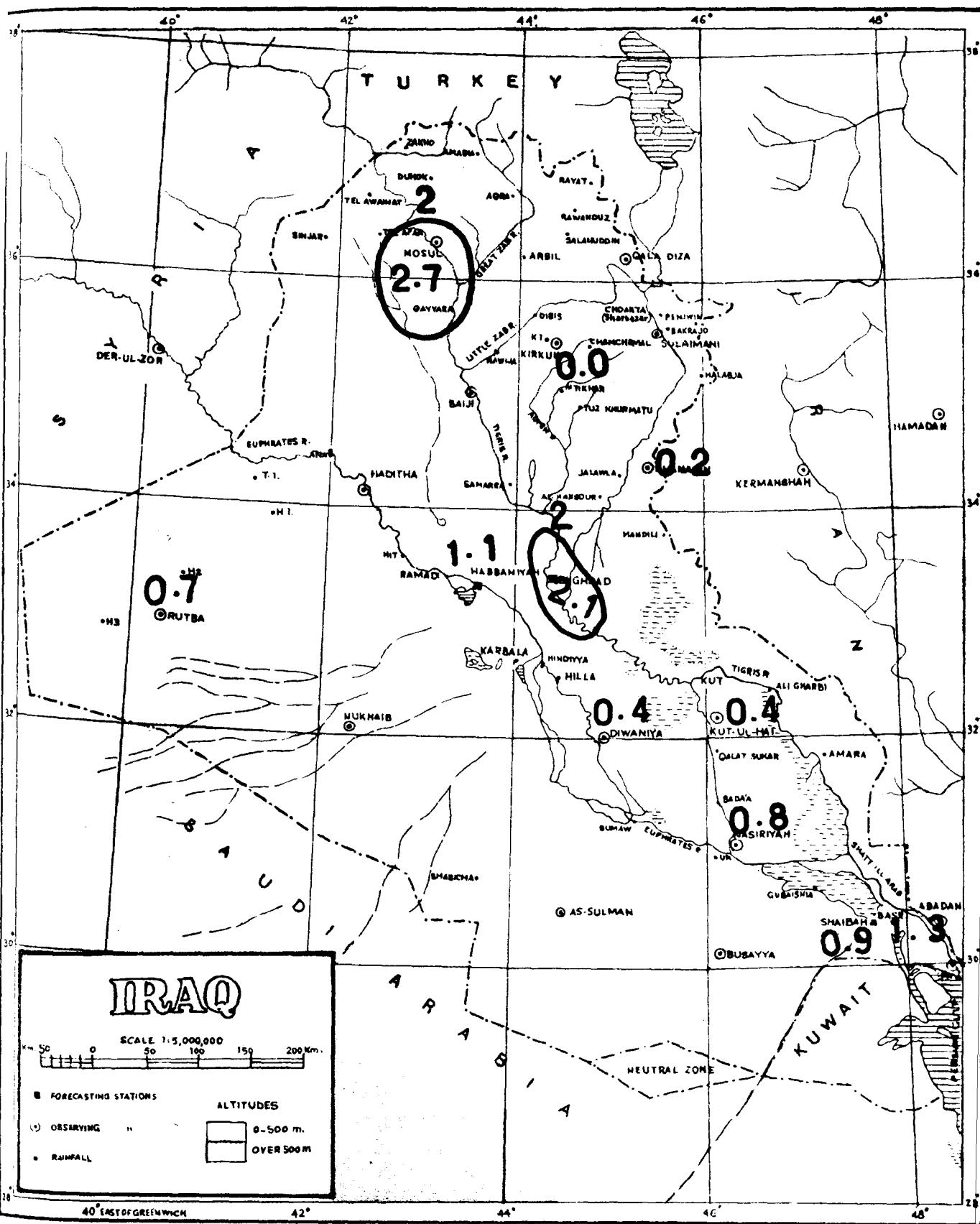
OCTOBER



F O G
Mean Monthly Number of Days with Fog
 period of records see page 2/3

161

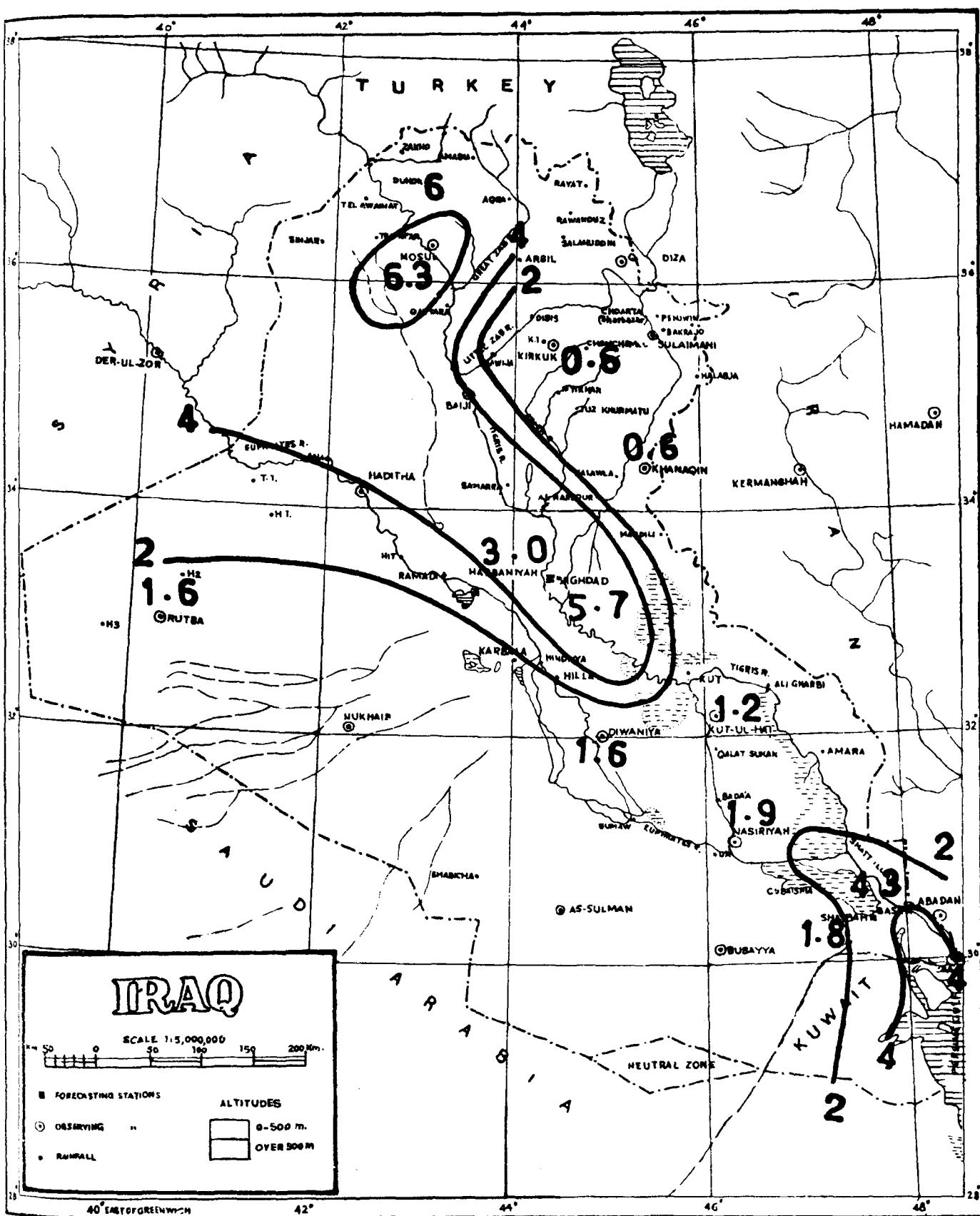
NOVEMBER



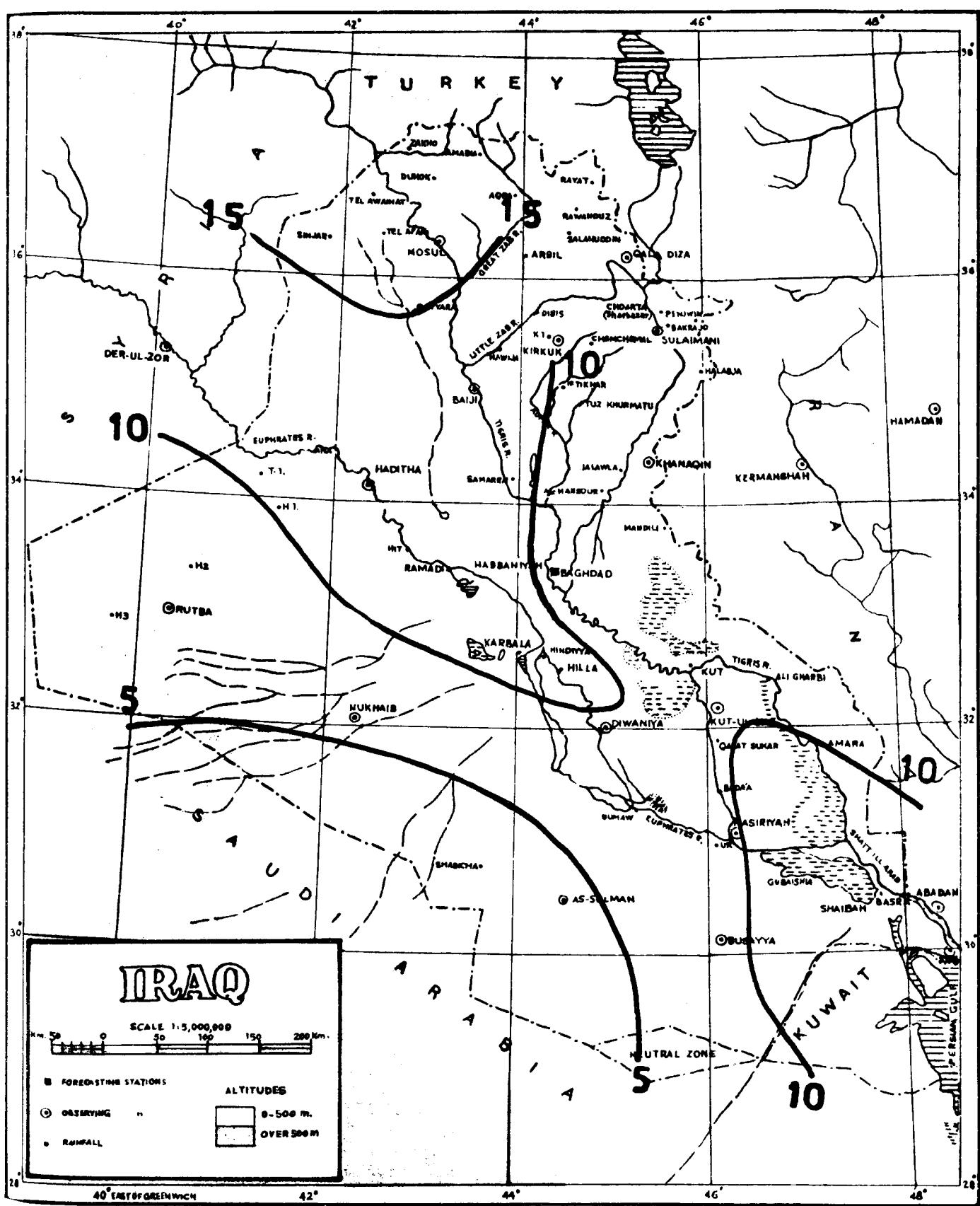
F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

162

DECEMBER



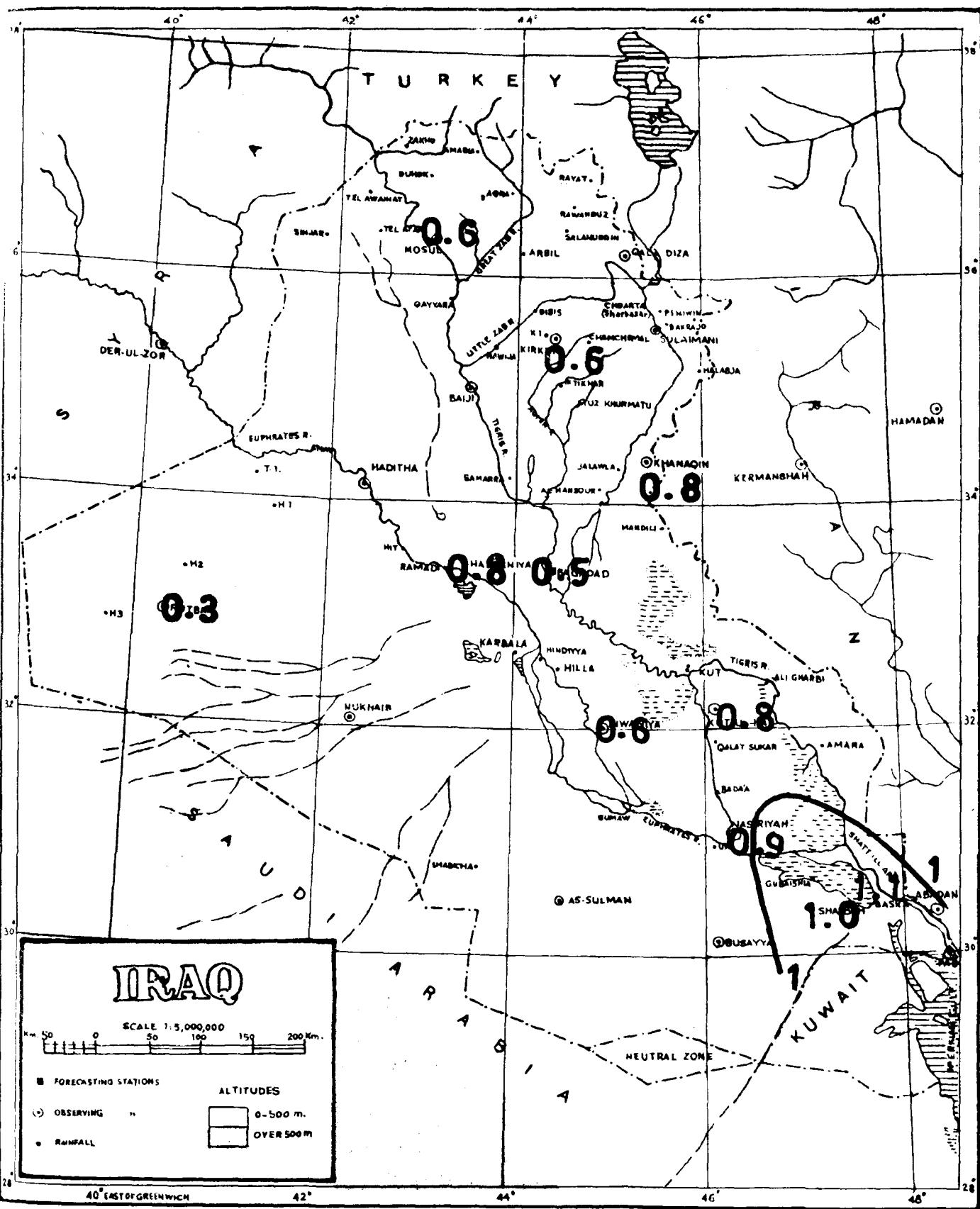
THUNDERSTORM
Mean Annual Number of Days with Thunderstorm
 period of records see page 2/3



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

164

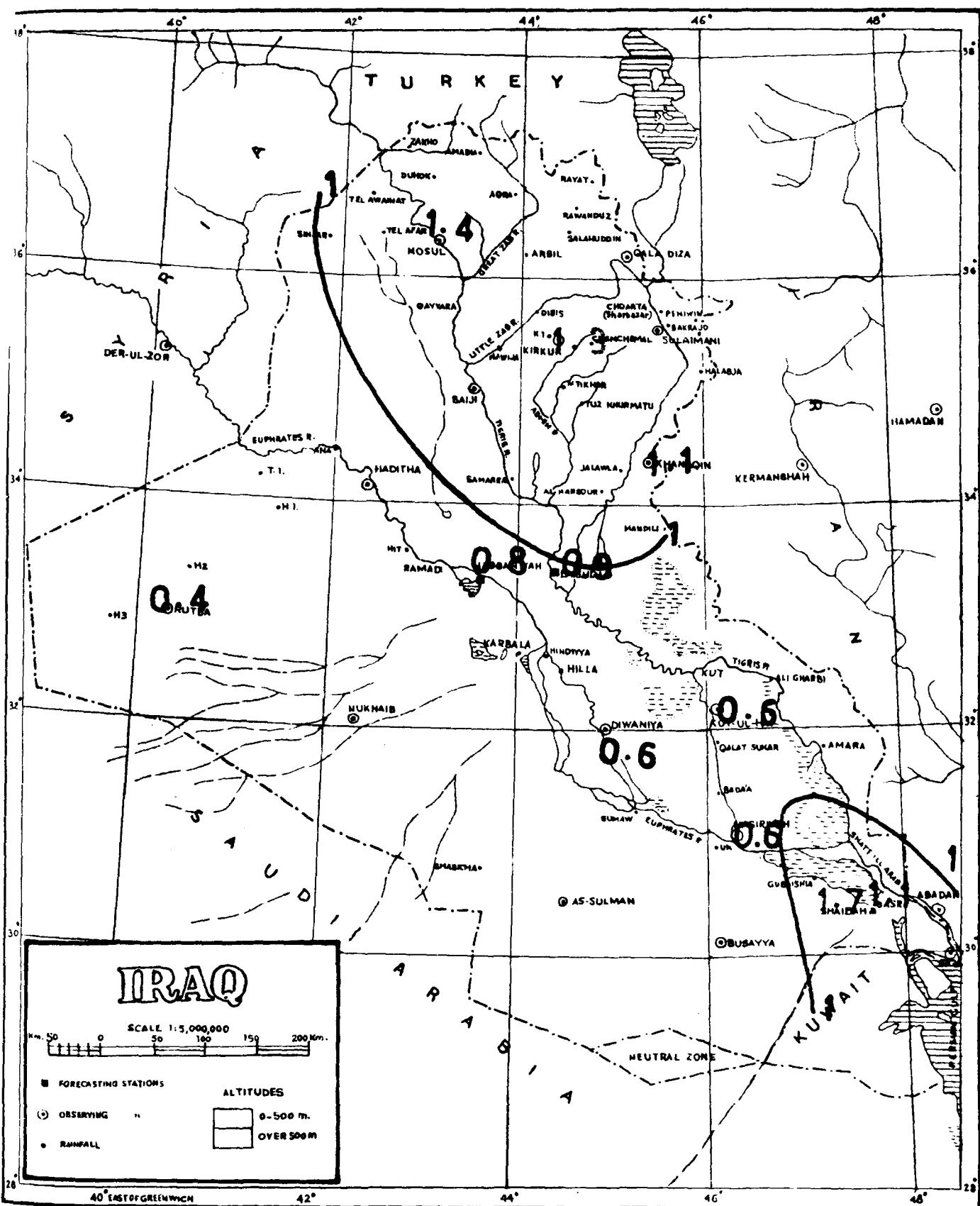
JANUARY



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

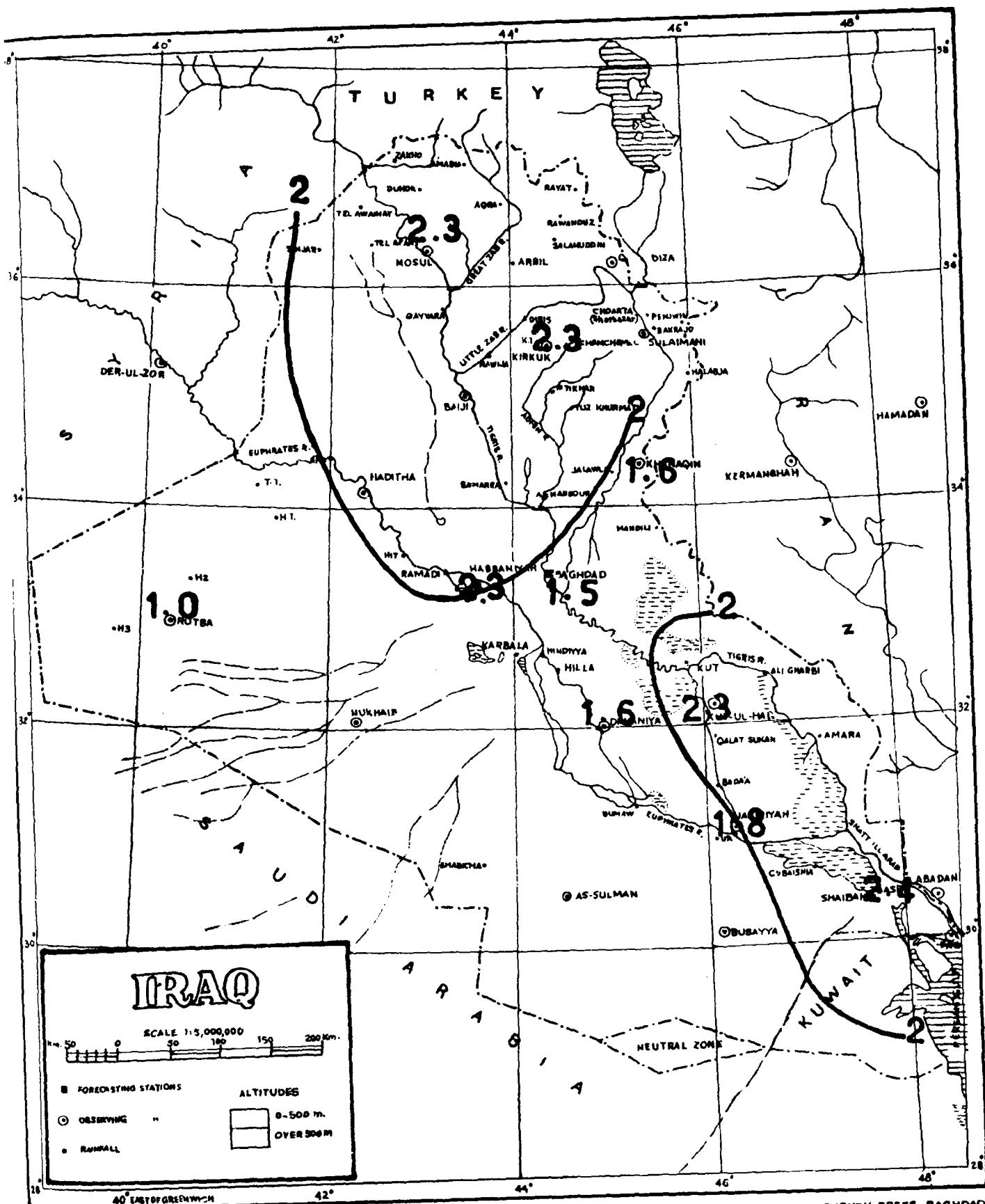
165

FEBRUARY



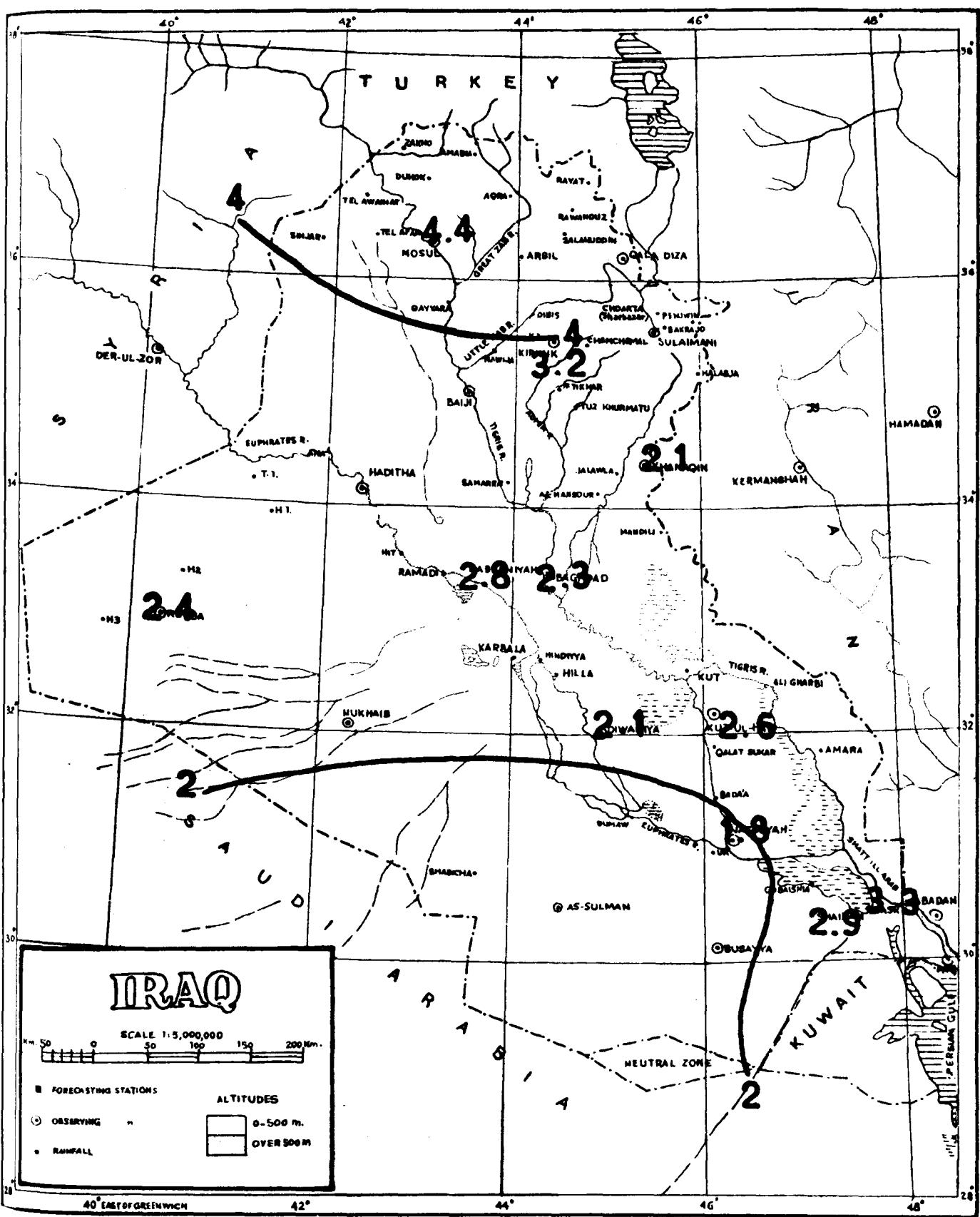
THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

MARCH



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

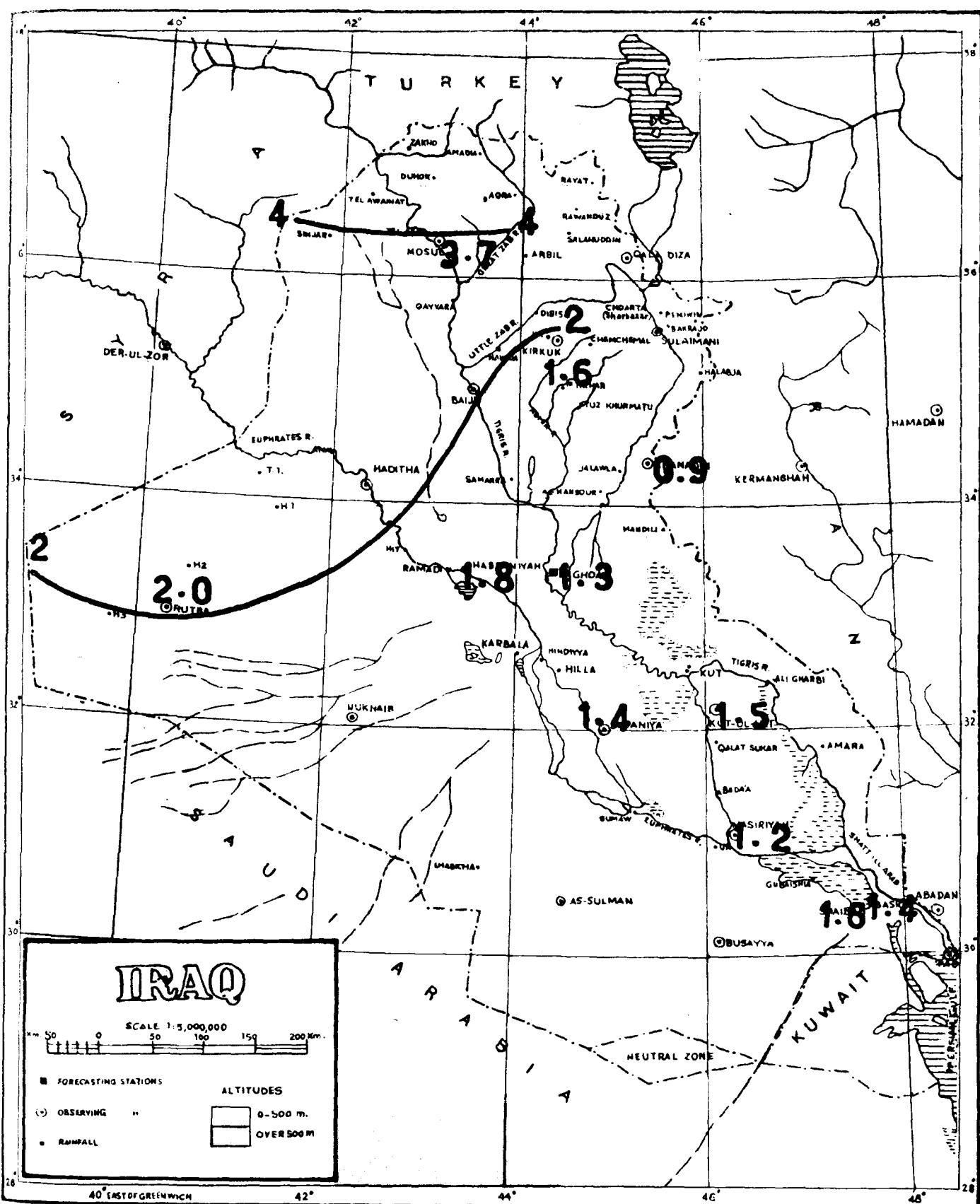
APRIL



T H U N D E R S T O R M
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

168

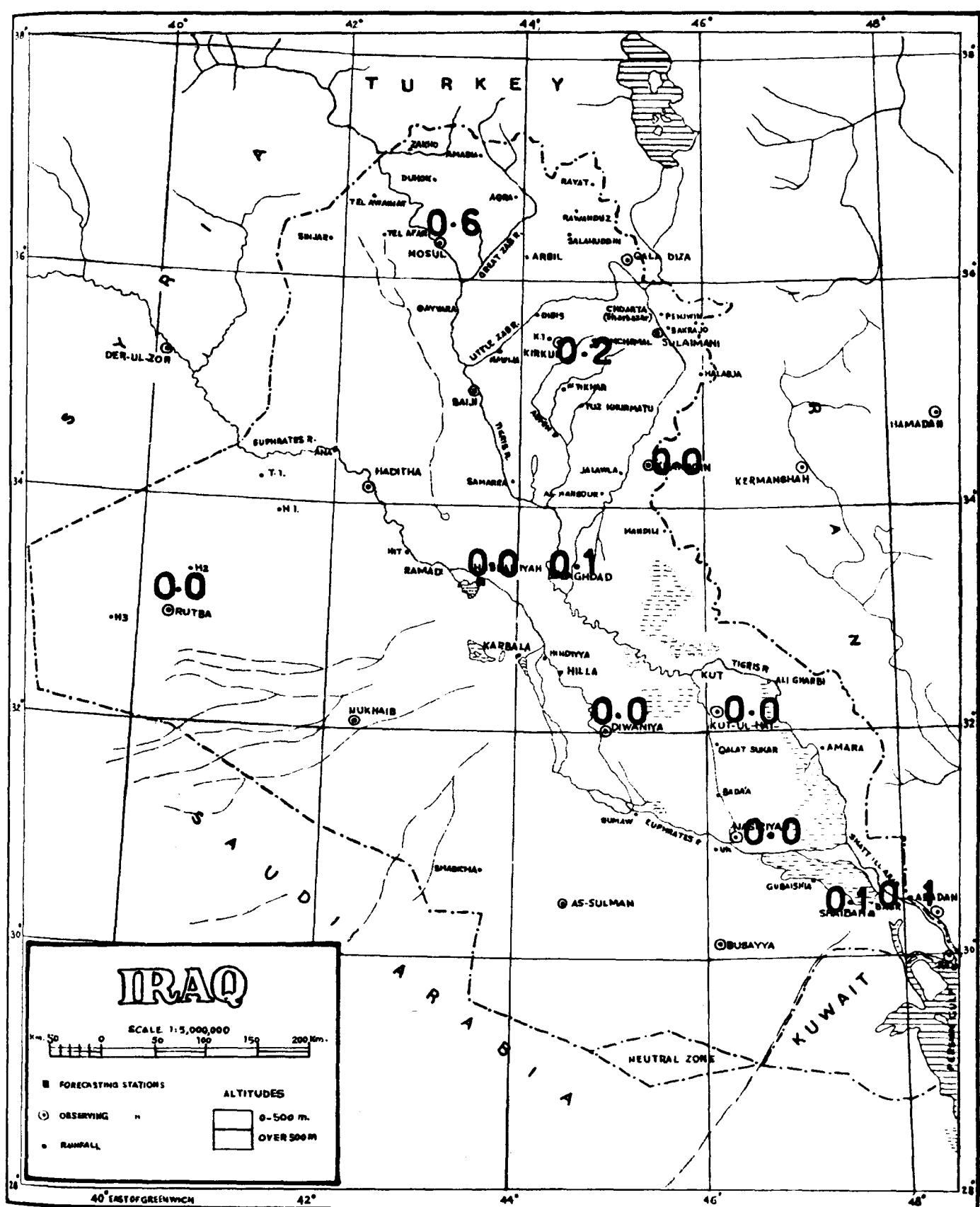
MAY



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

169

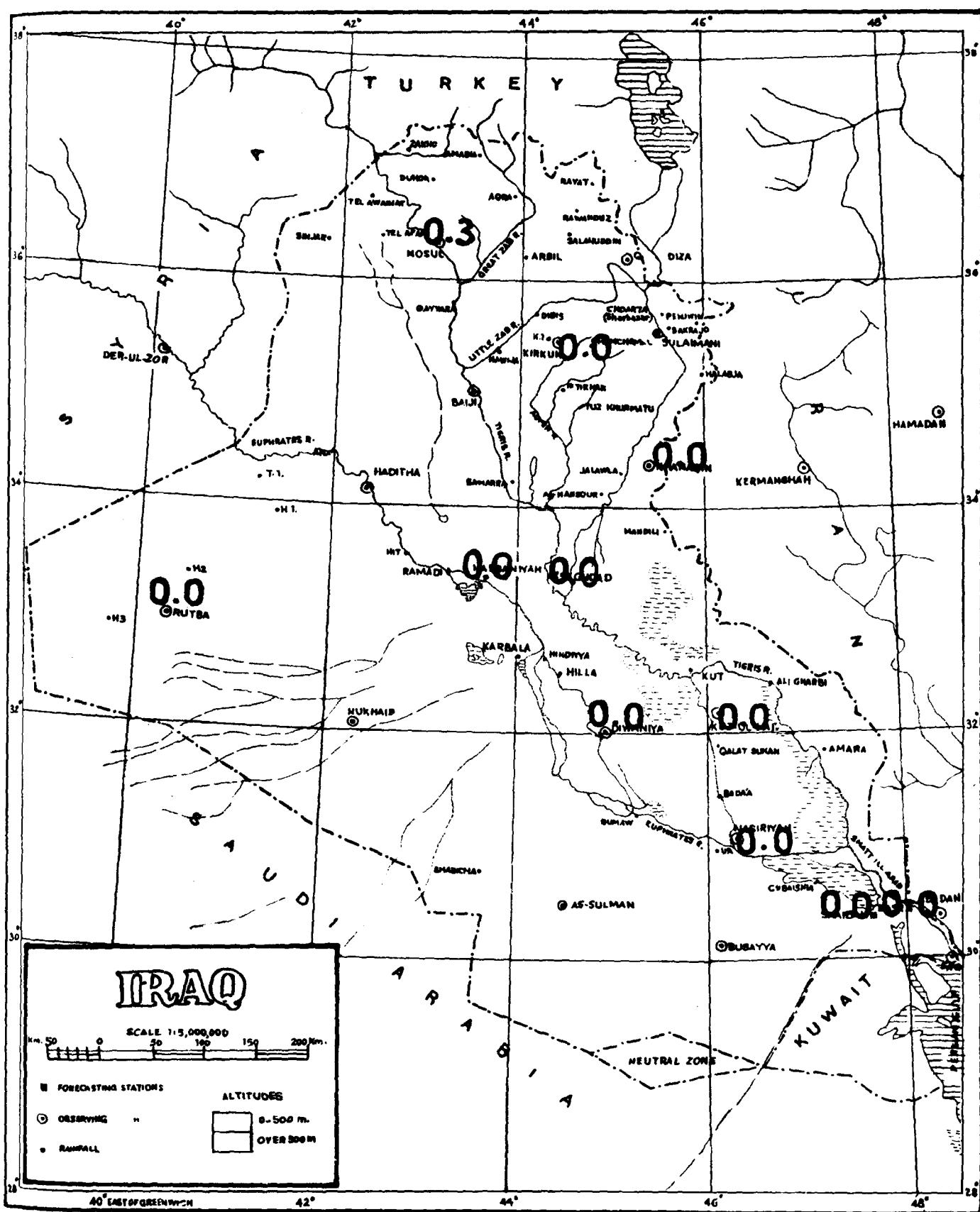
JUNE



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

170

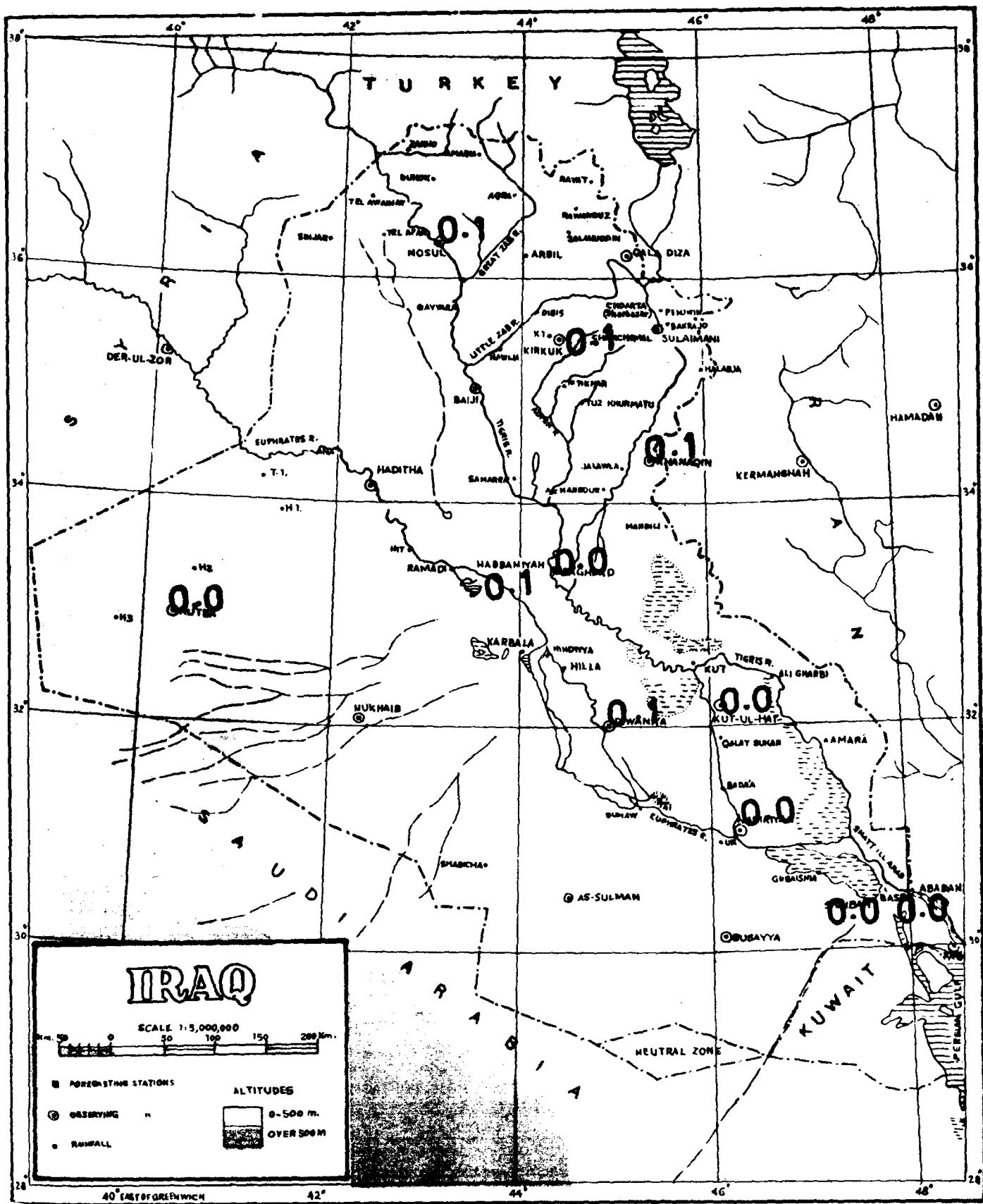
JULY



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

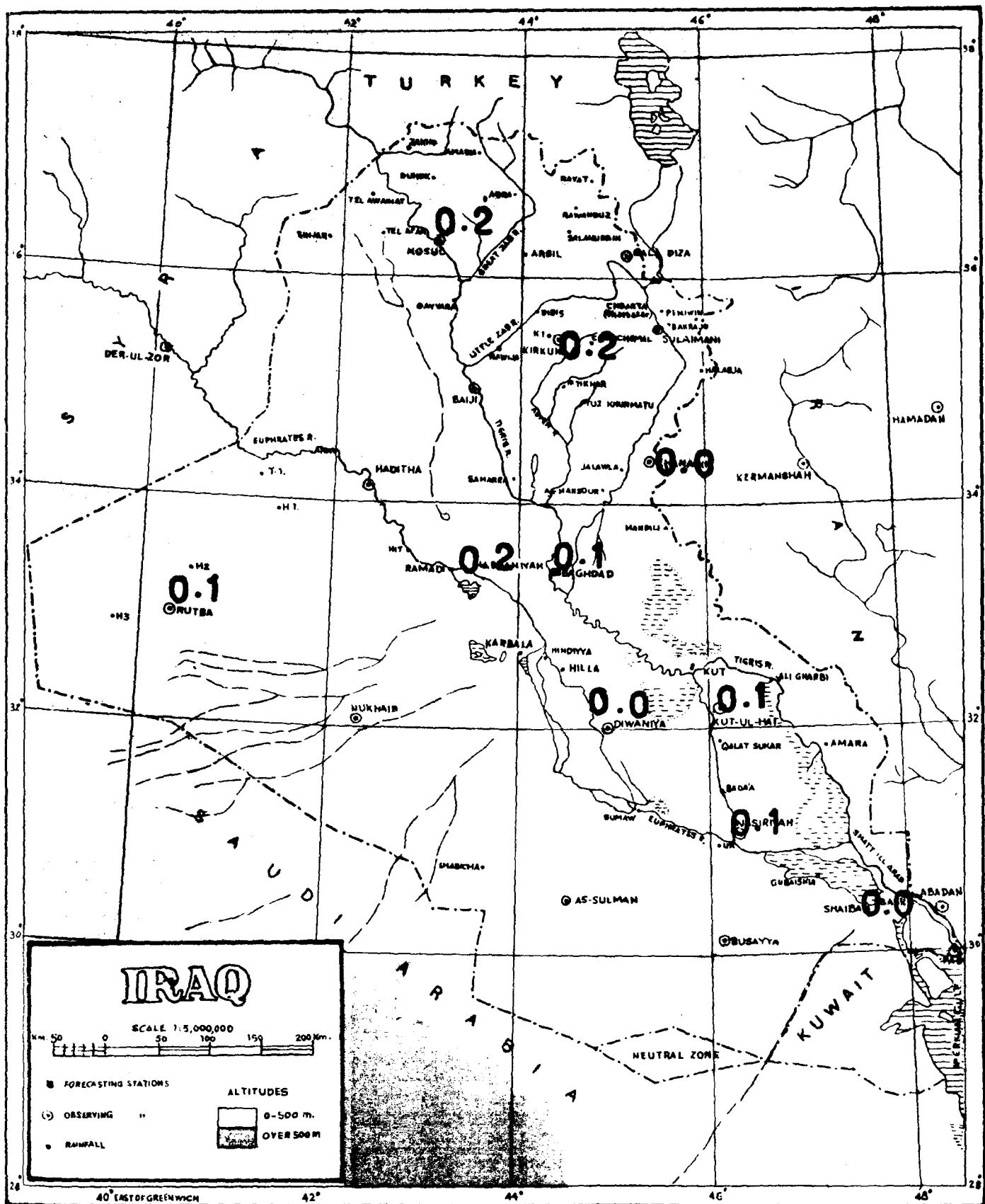
171

AUGUST



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

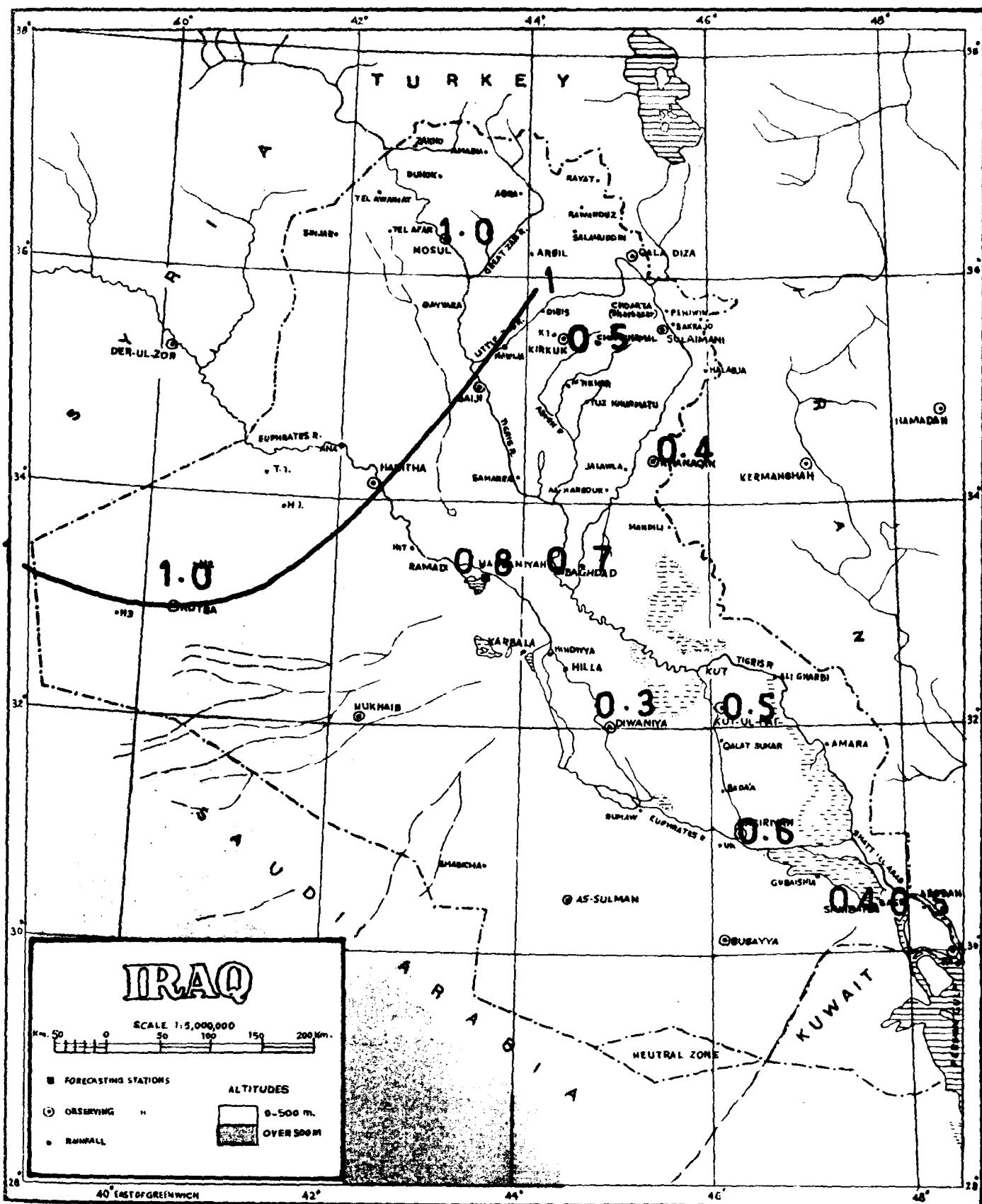
SEPTEMBER



THUNDERSTORM
 Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

173

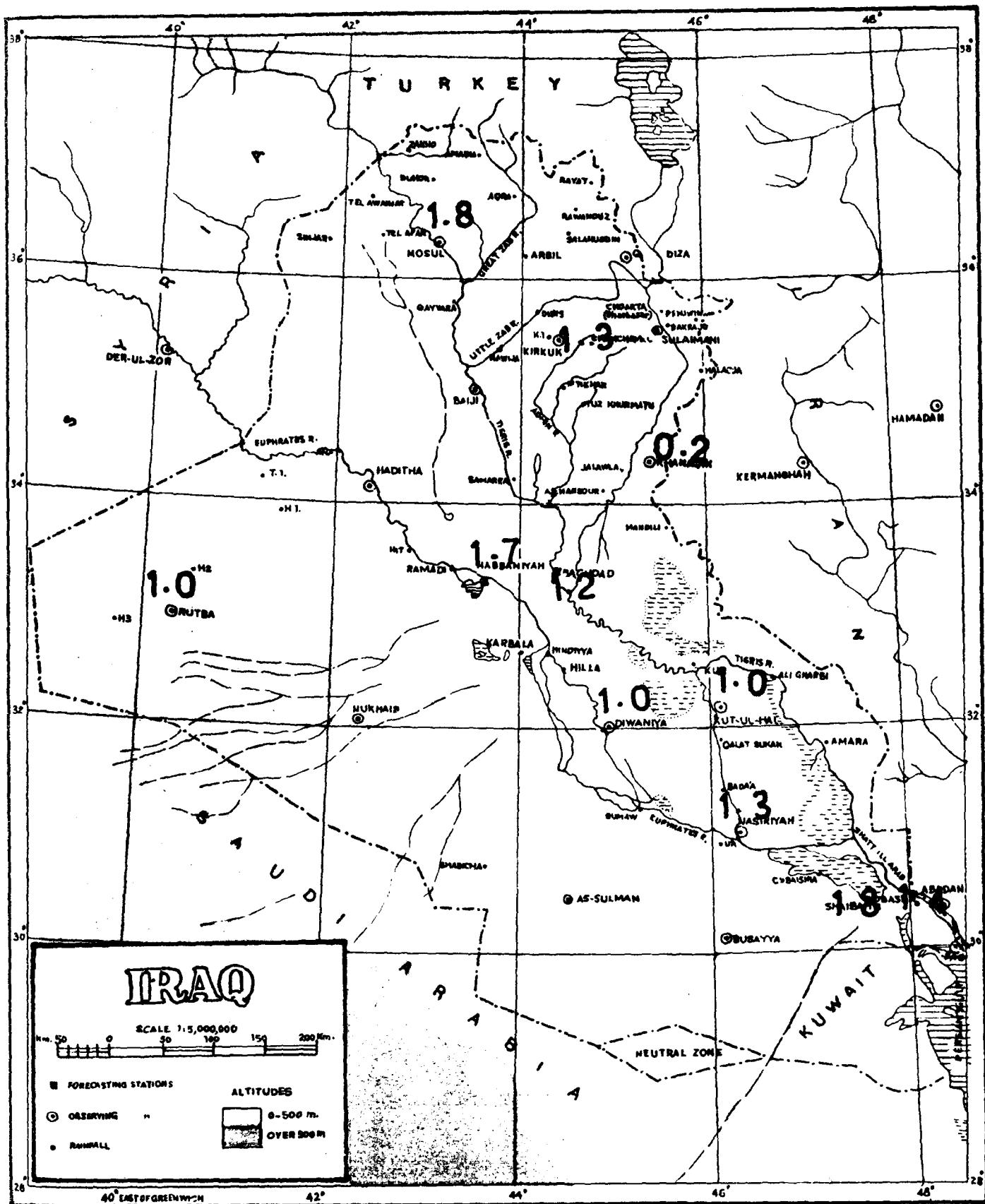
OCTOBER



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

174

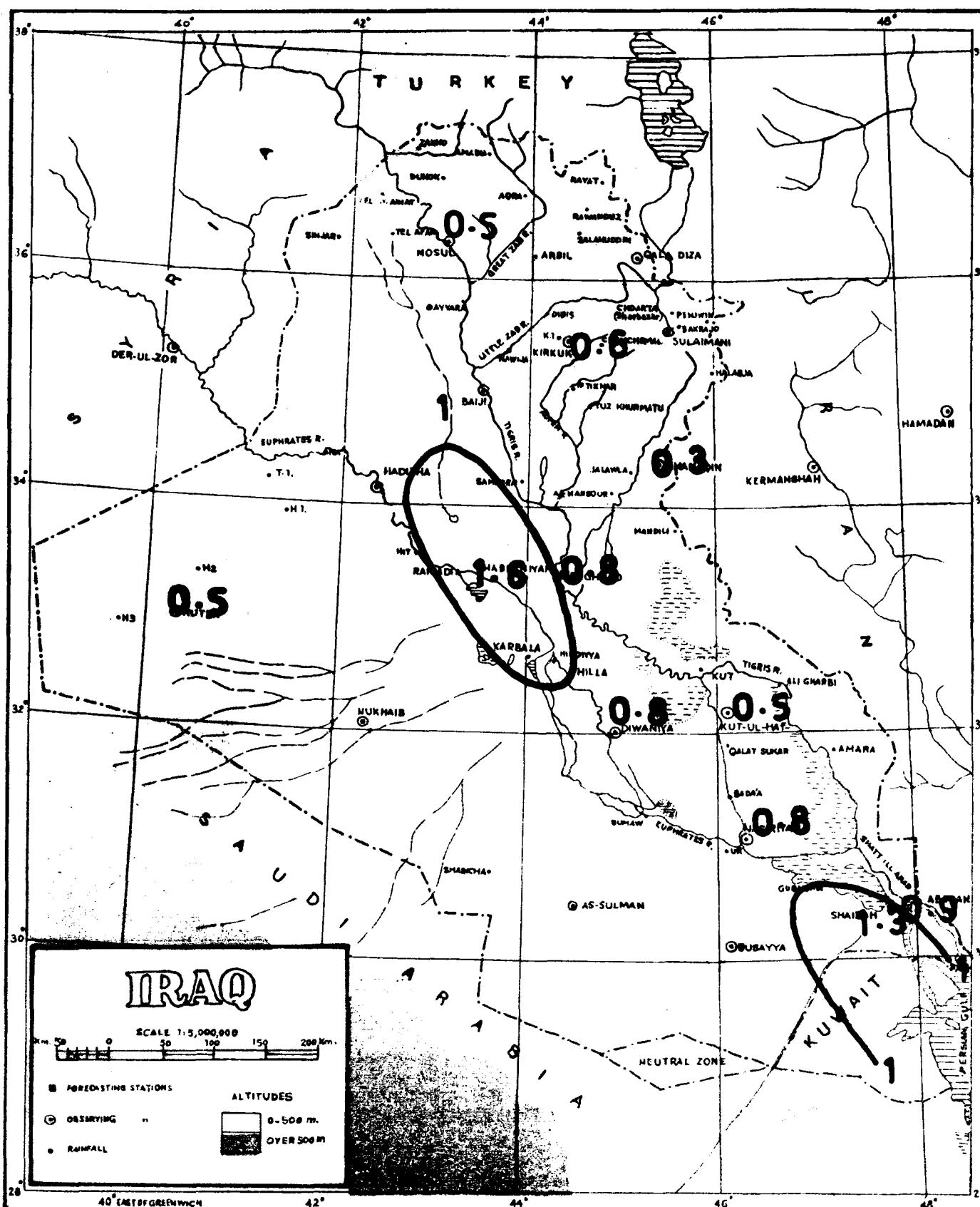
NOVEMBER



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

175

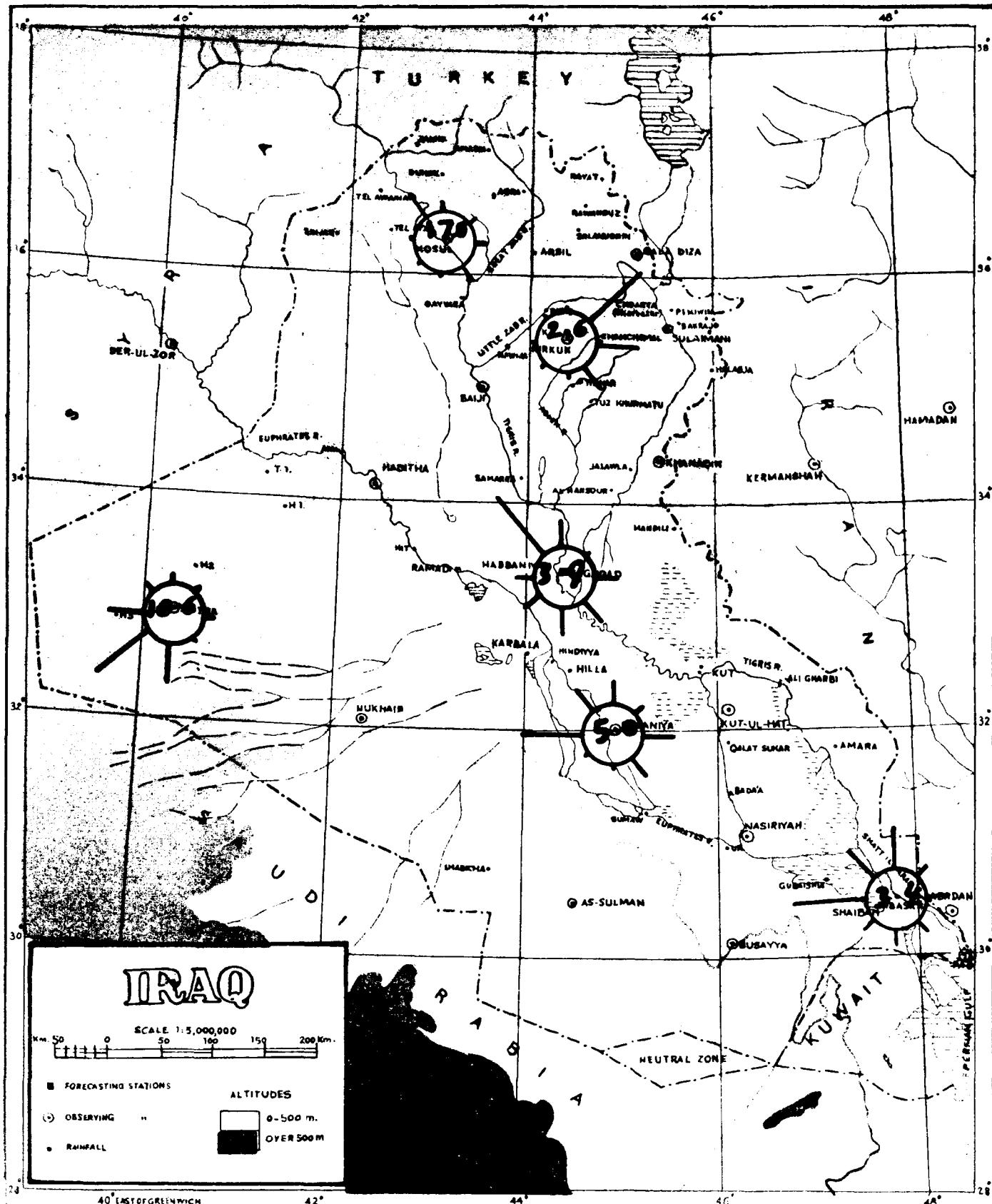
DECEMBER



W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

176

JANUARY 0300 GMT



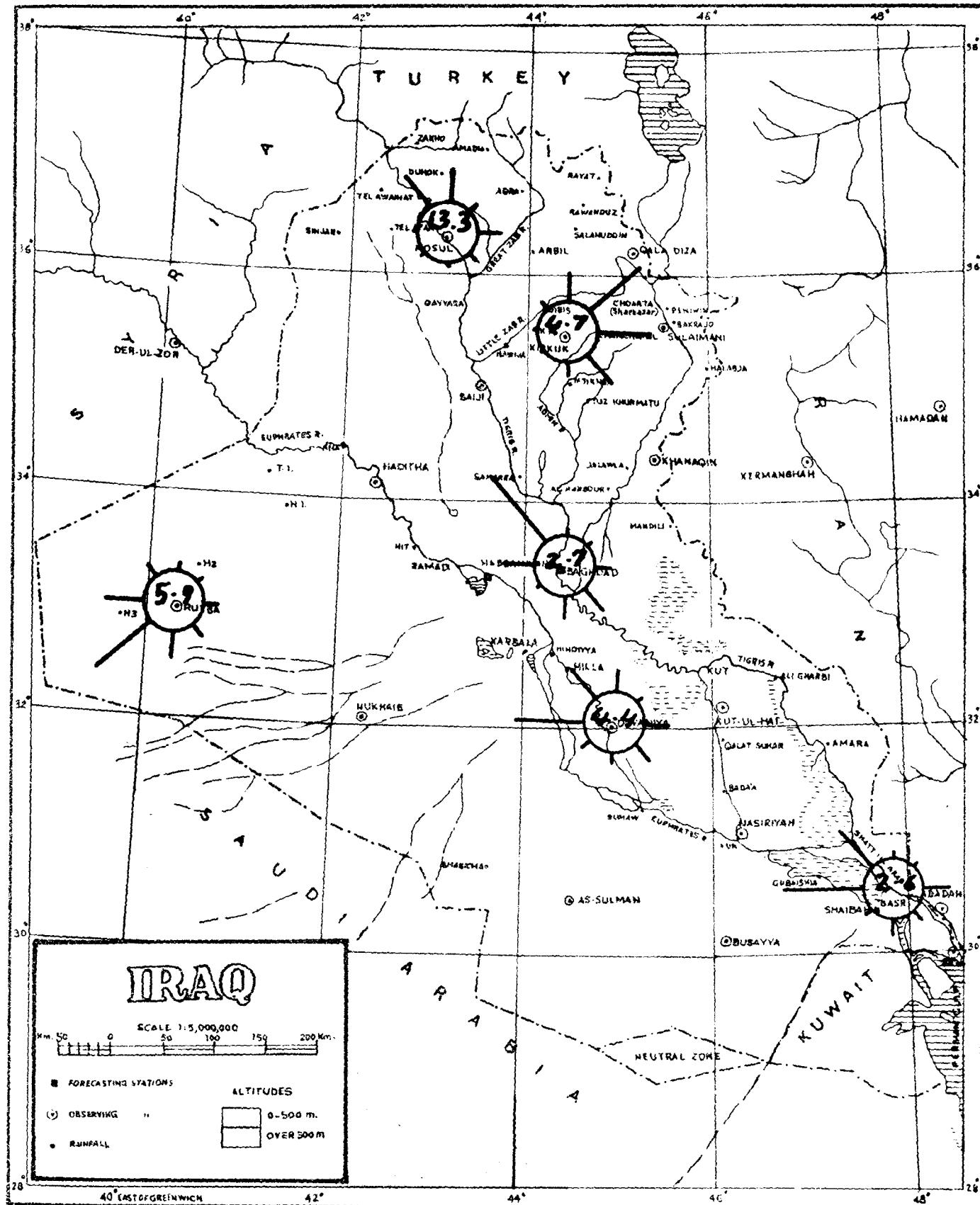
The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS BAGHDAD

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

177

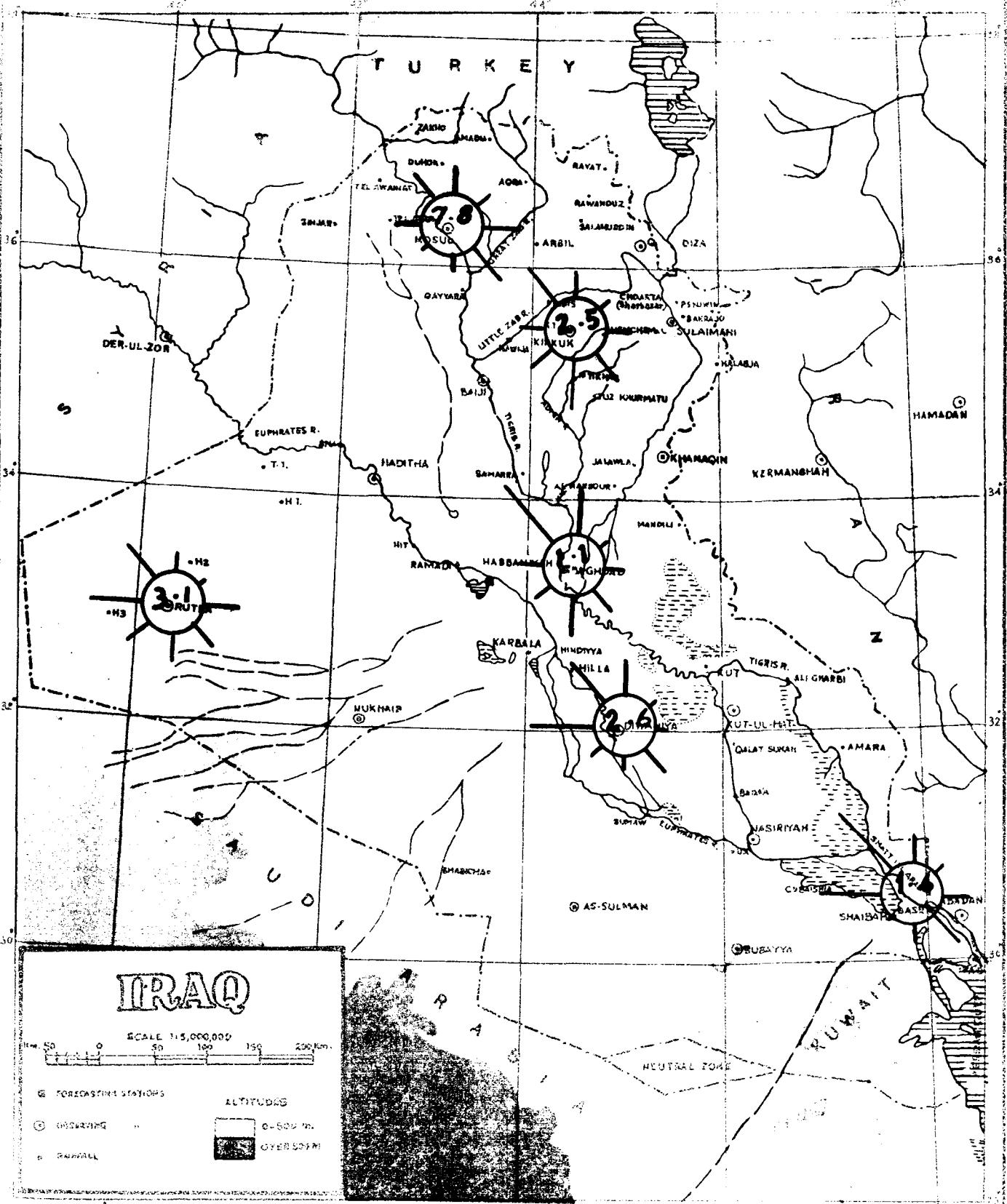
January 0600 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average frequency from Specified Directions
period of records see page 2/3

JANUARY 1200 GMT.

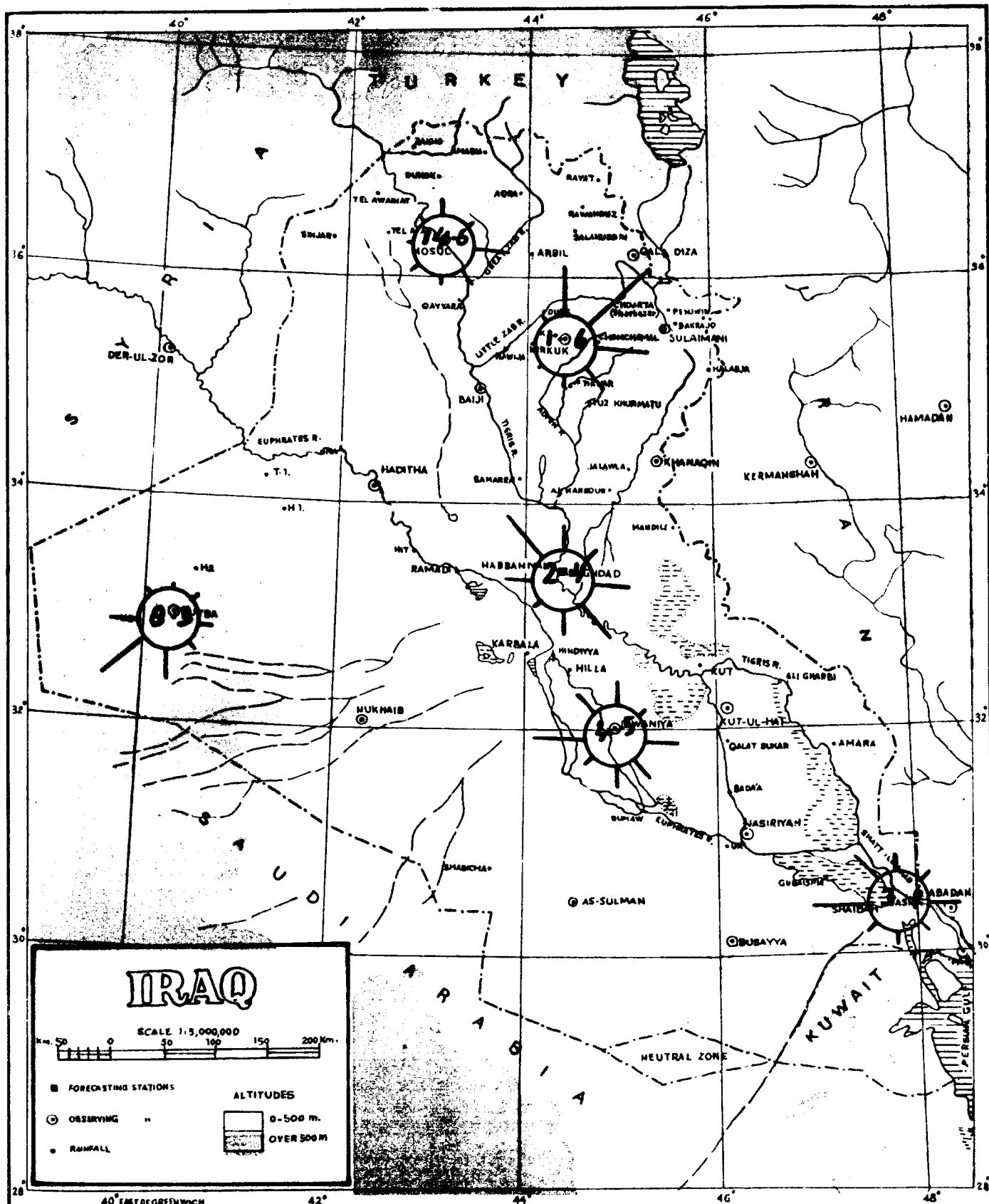


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

179

February 0300 GMT.

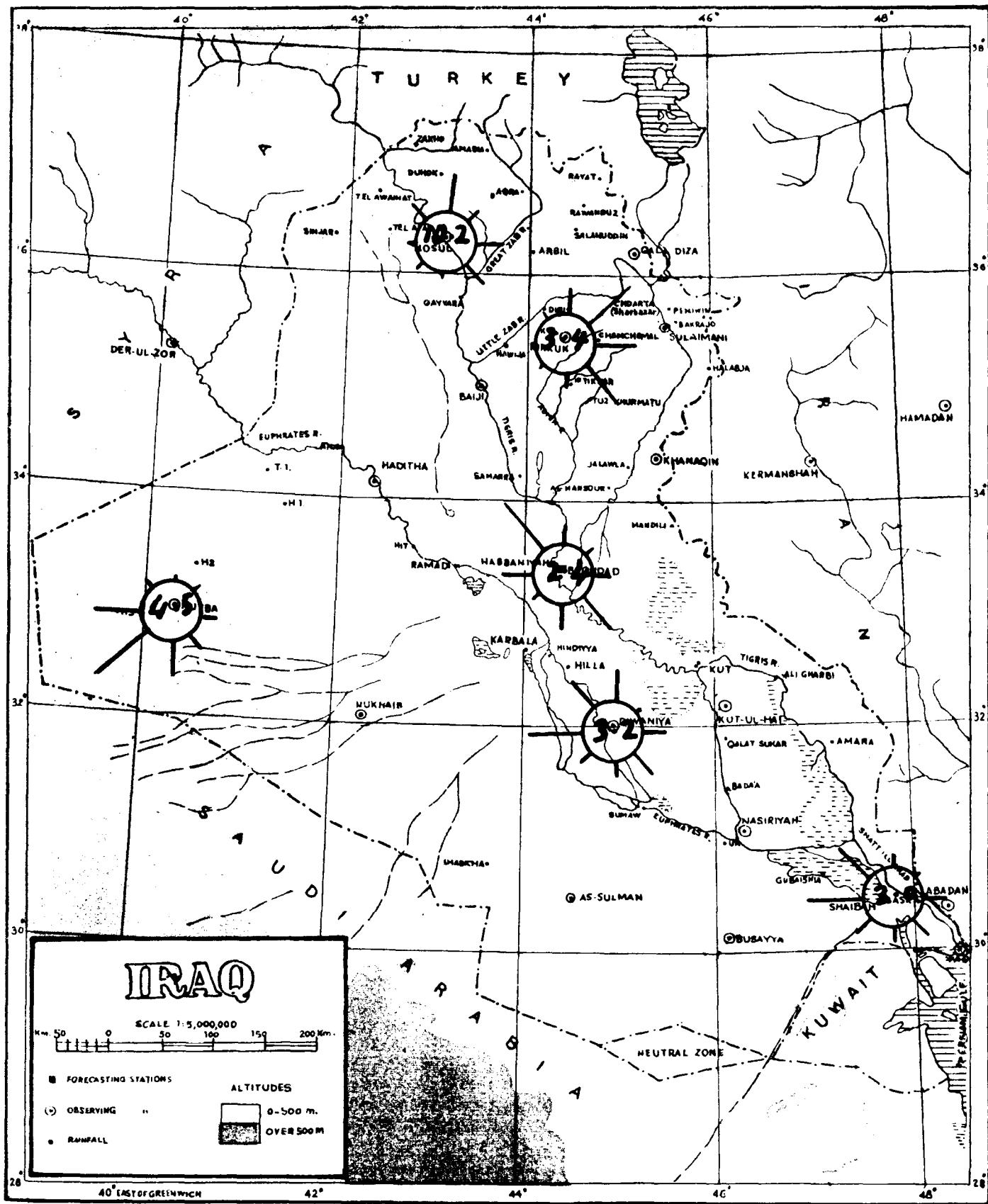


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

180

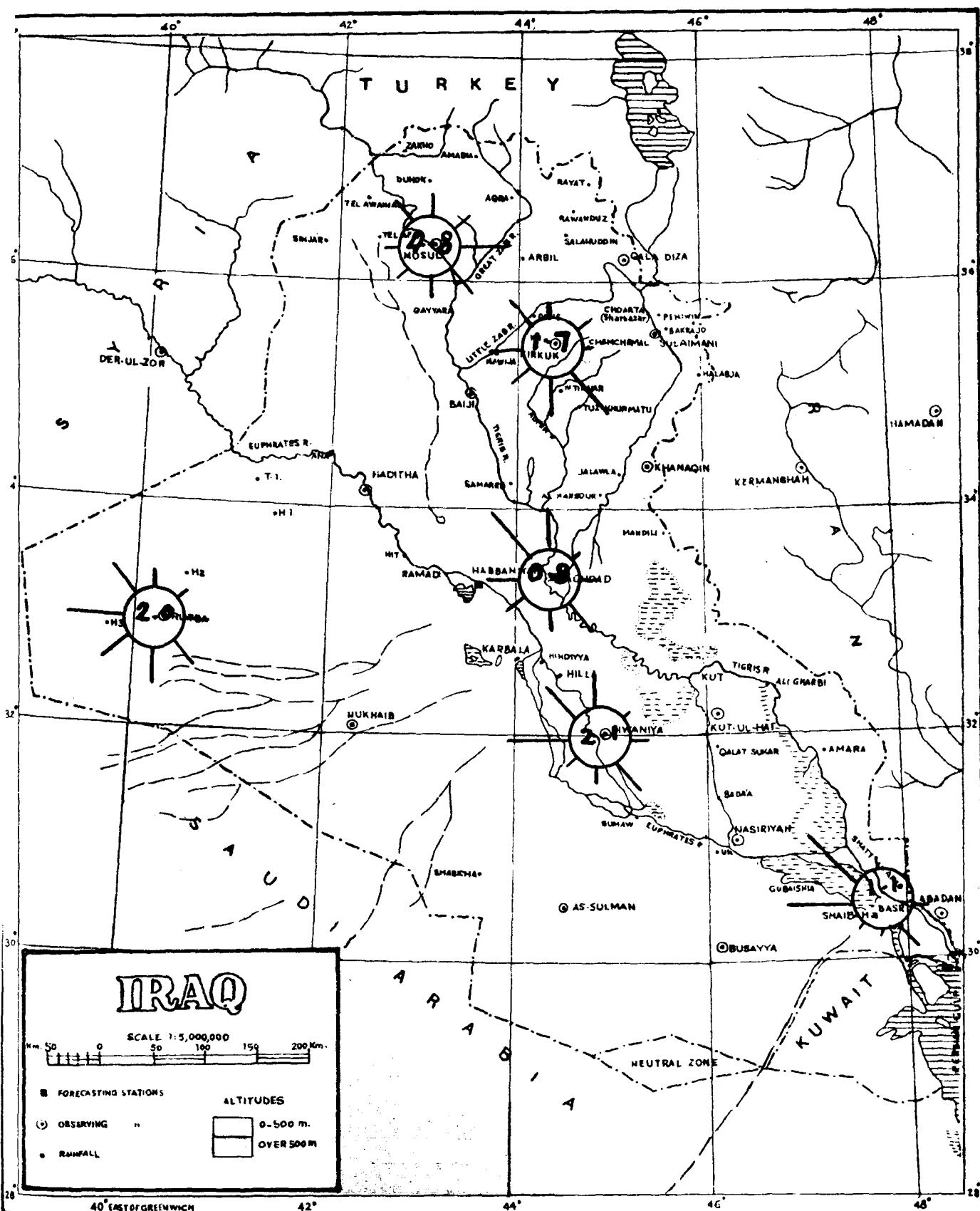
FEBRUARY 0600 GMT.



The length of each arrow represents the mean Number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows without wind.

Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

FEBRUARY 1200 GMT.



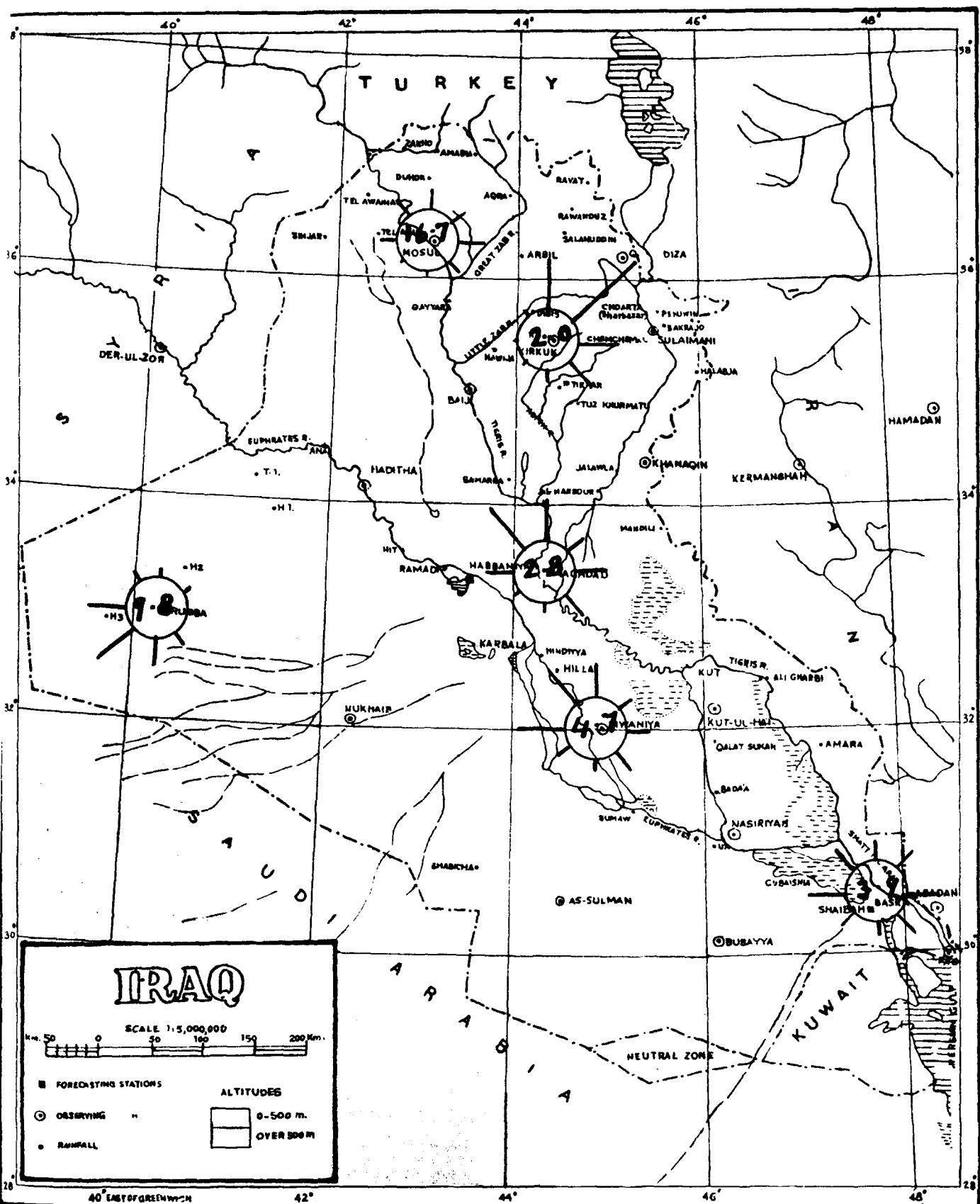
SURVEY PRESS BAGHDAD

The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

182

MARCH 0300 GMT.



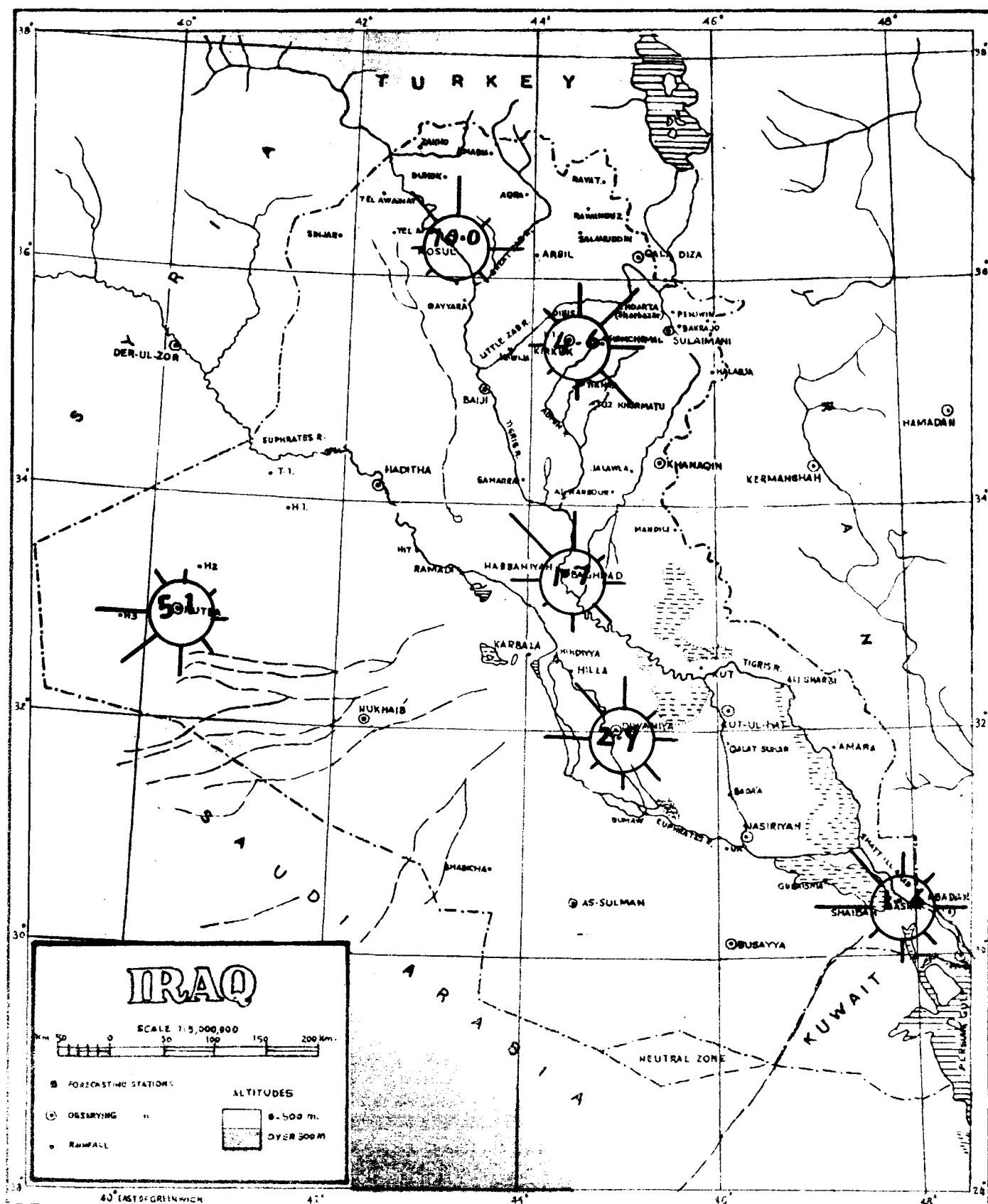
The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS, BAGHDAD.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

183

MARCH 0600 GMT.

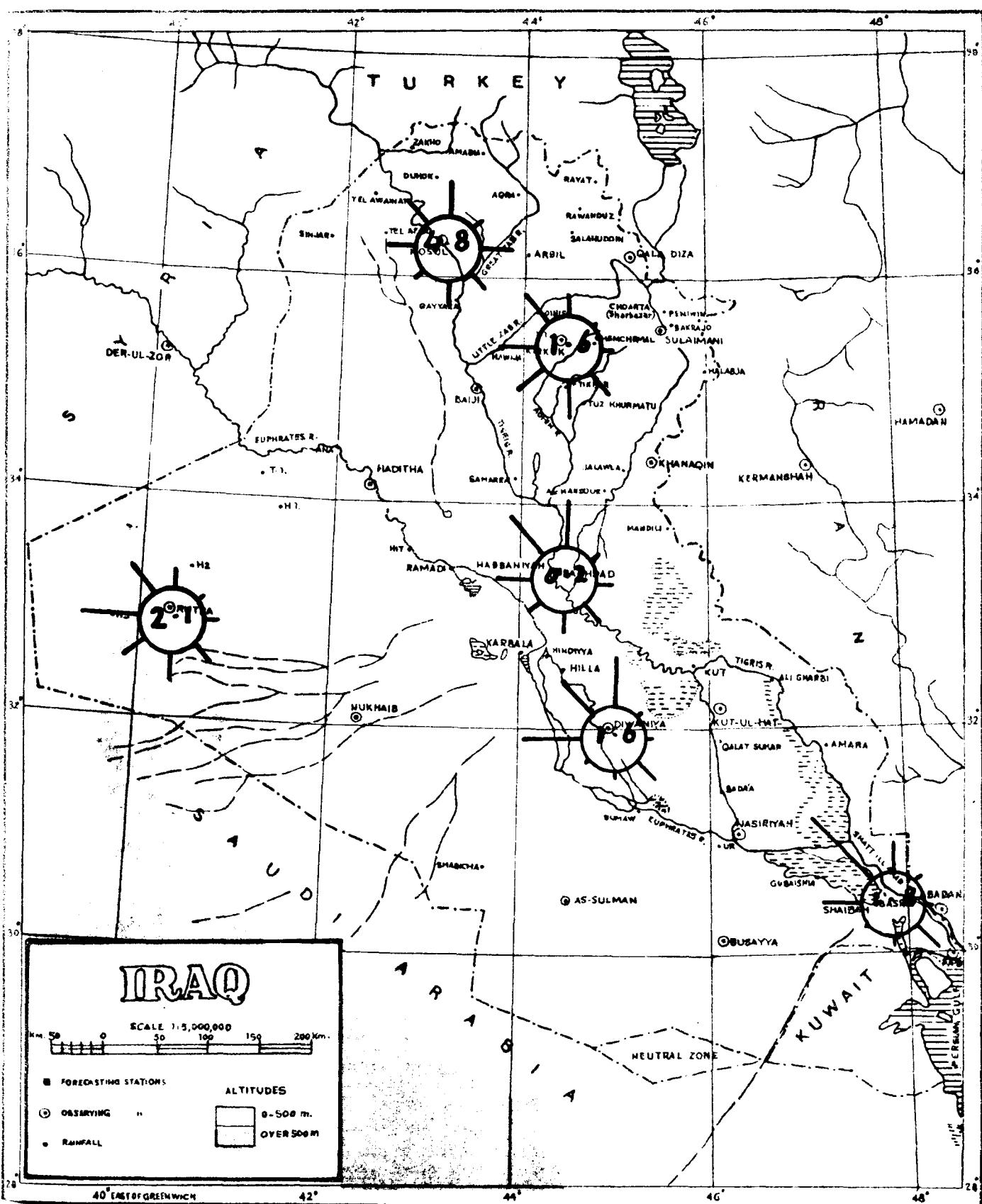


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

184

MARCH 1200 GMT.

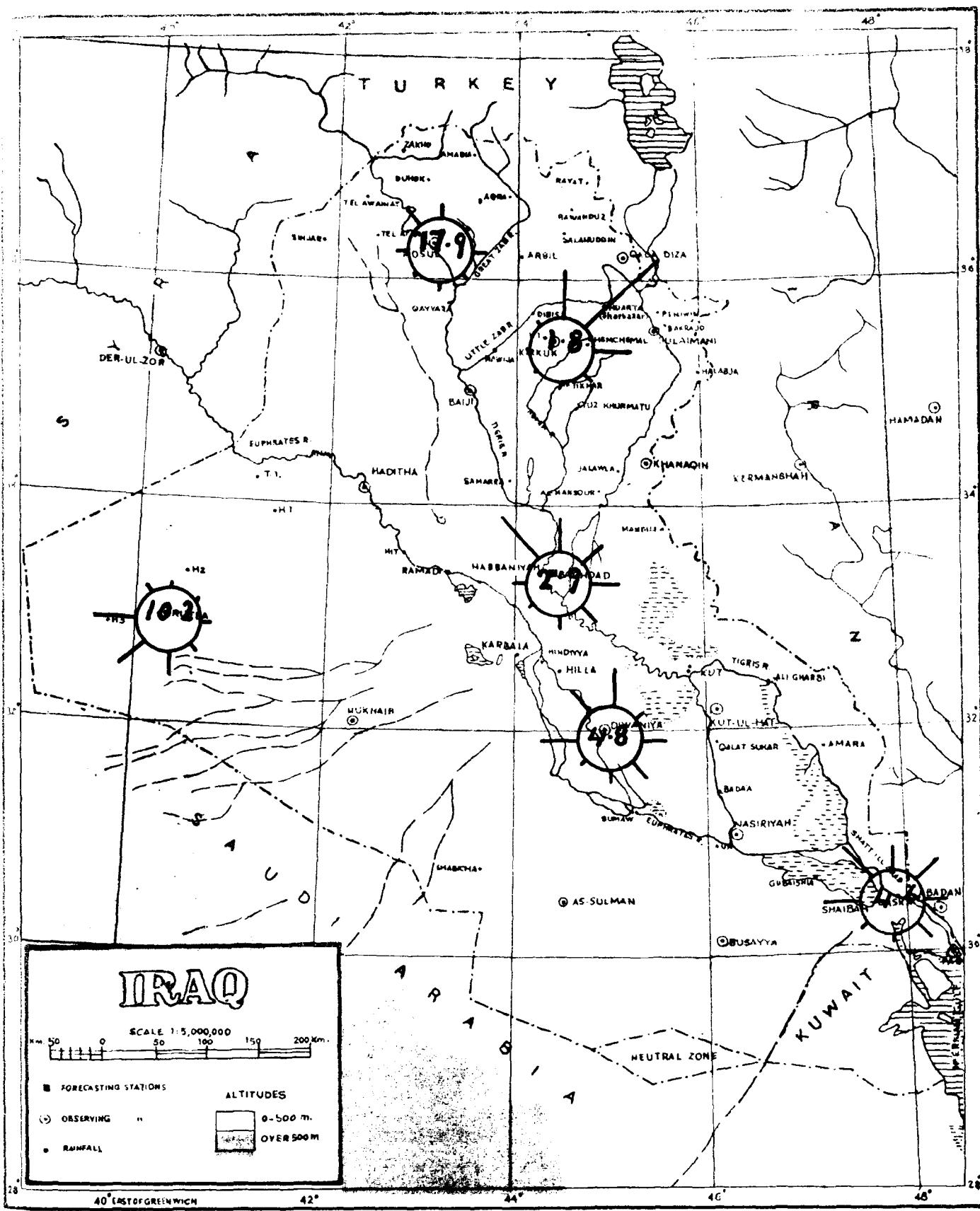


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

185

APRIL 0300 GMT.

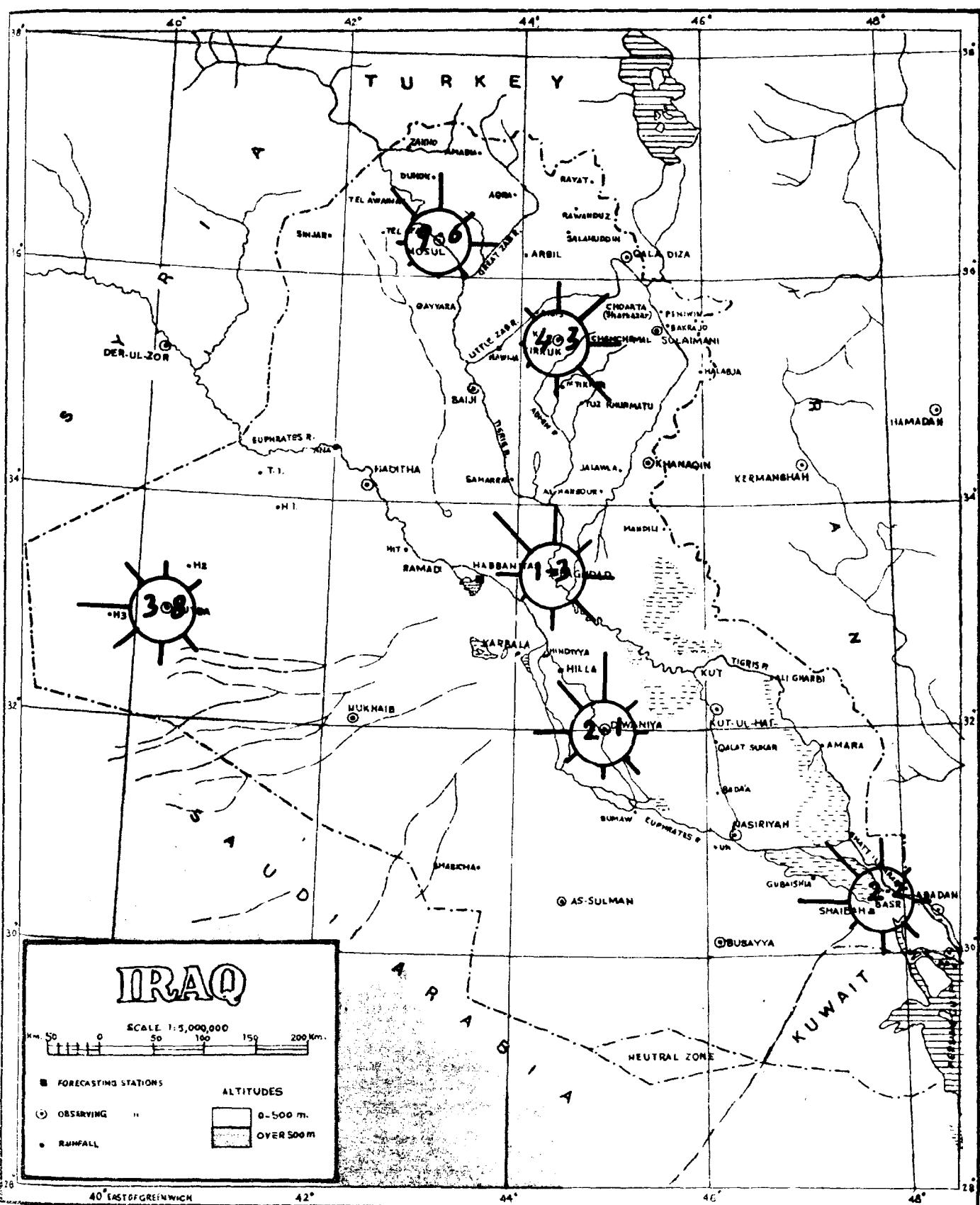


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

186

APRIL 0600 GMT.

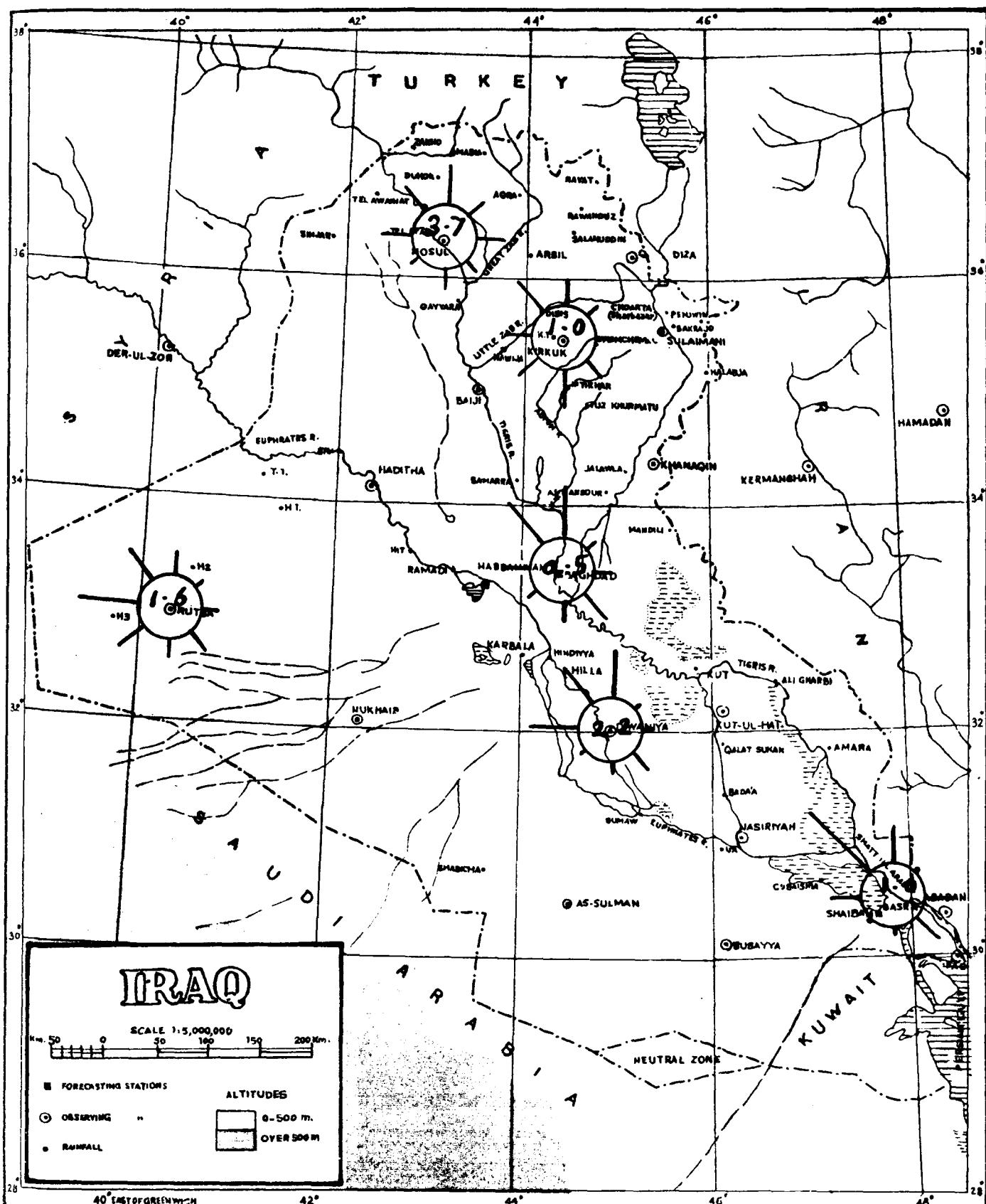


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

187

APRIL 1200 GMT



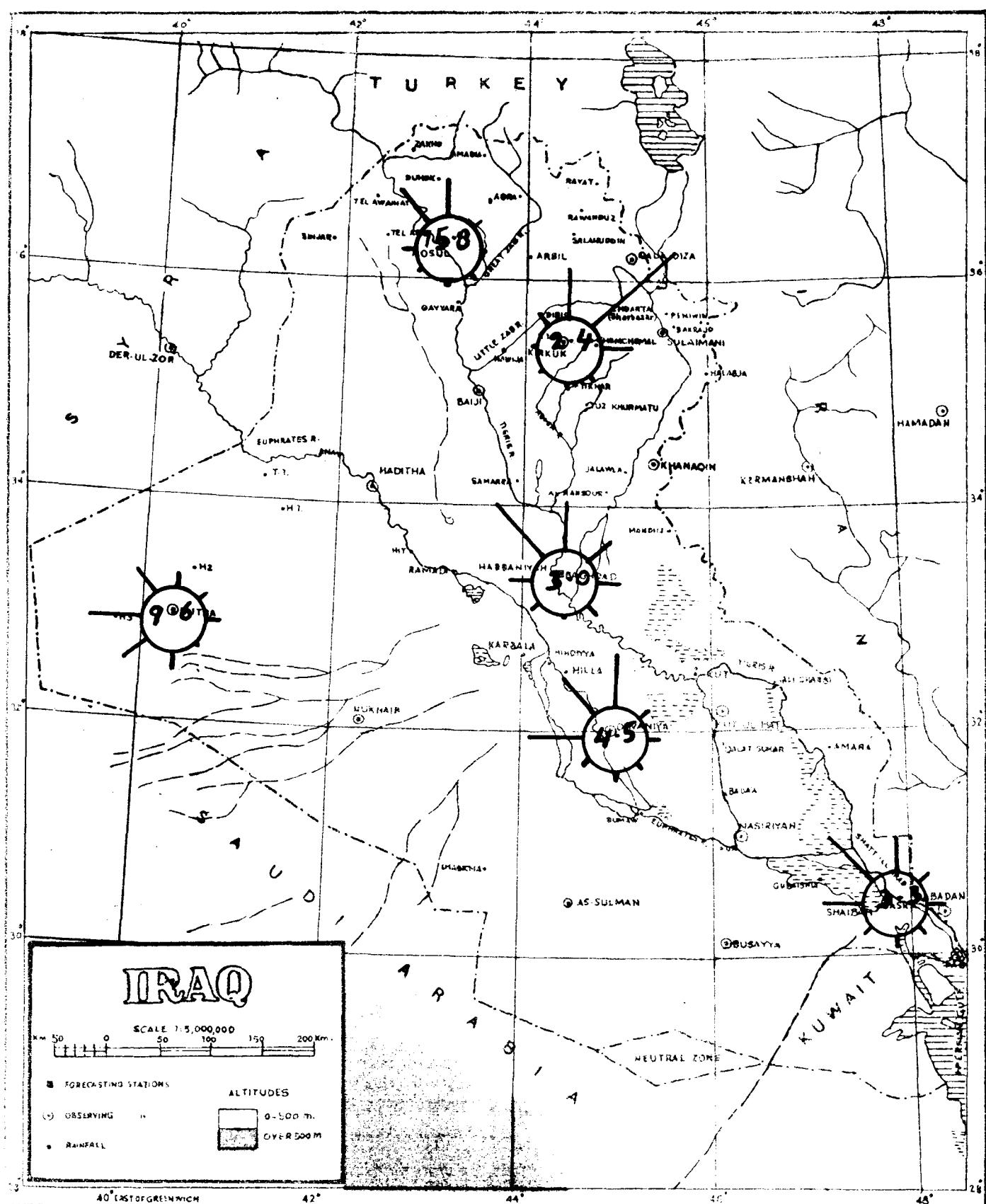
The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS, BAGHDAD.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

188

MAY 0300 GMT.

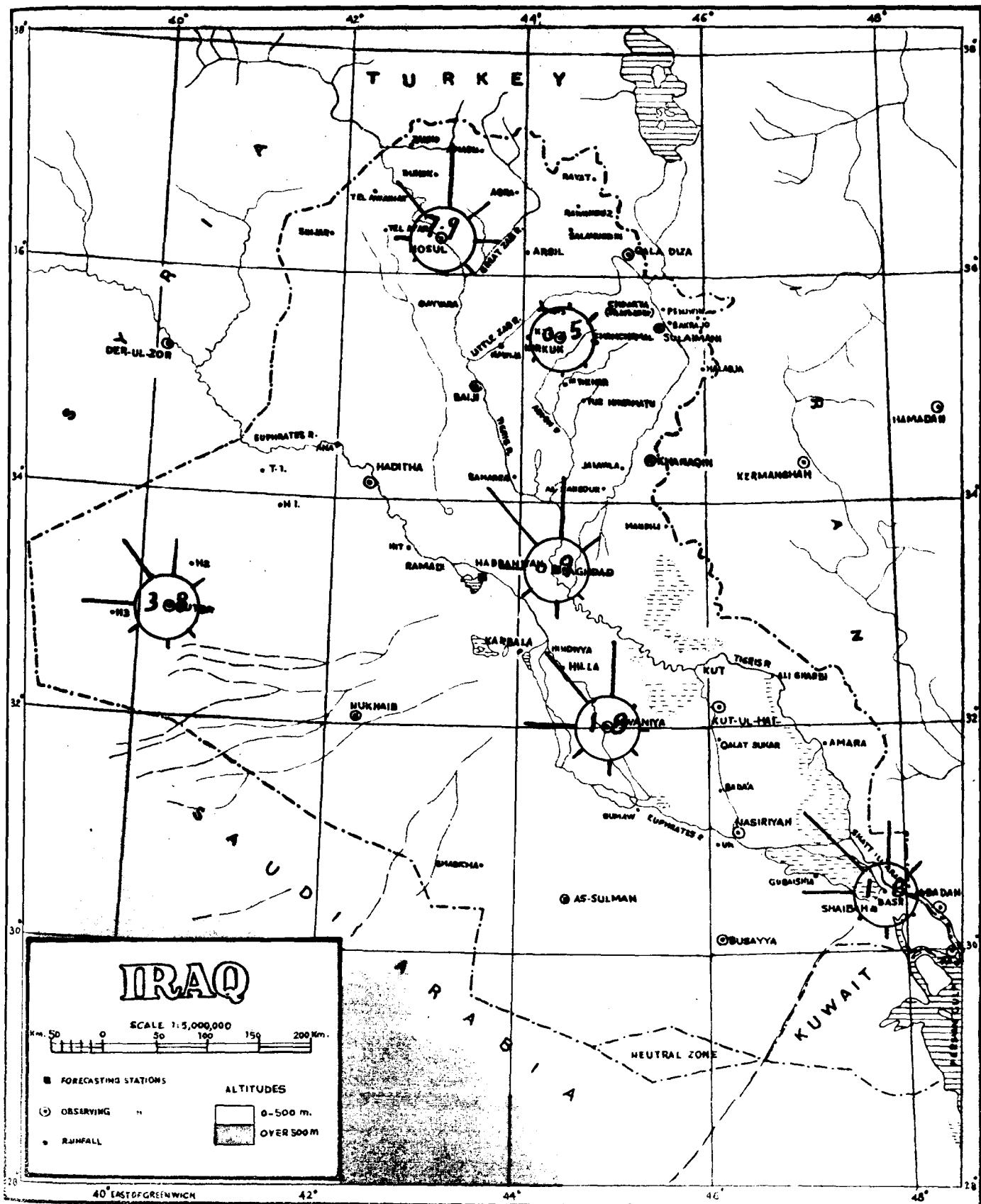


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
**Average Frequency from Specified Directions
 for some selected stations**
 period of records see page 2/3

189

MAY 0600 GMT.

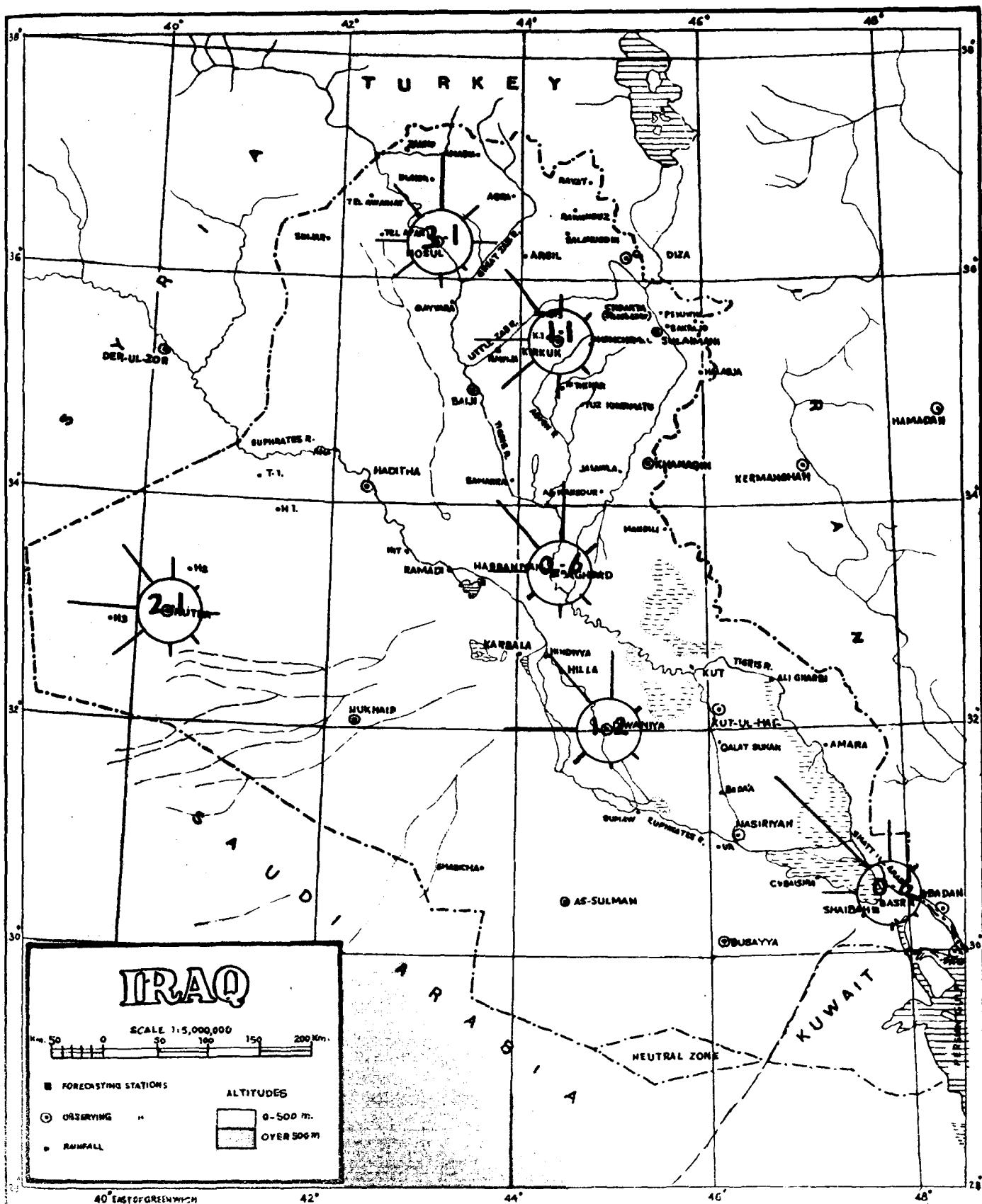


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

190

MAY 1200 GMT.

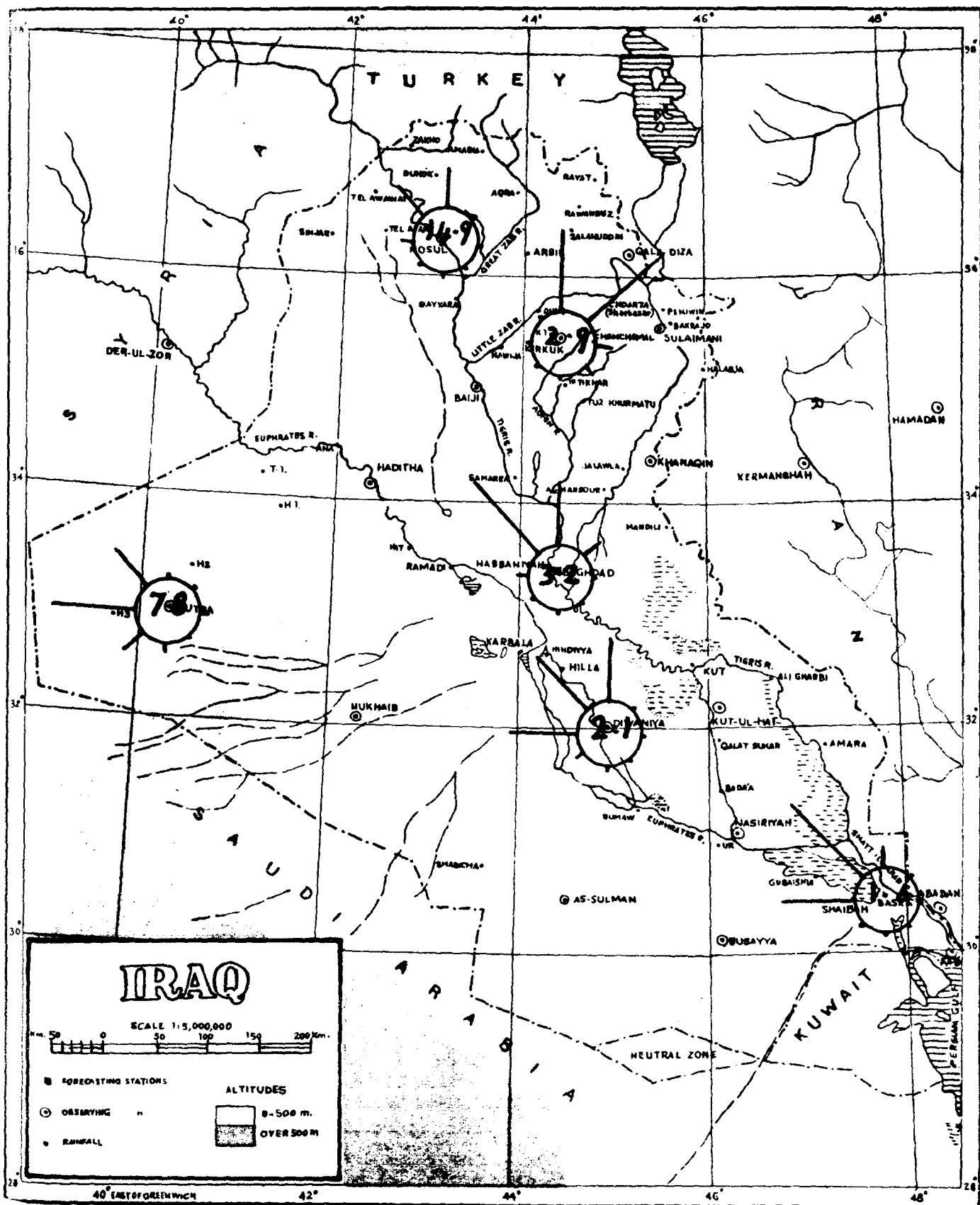


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS, BAGHDAD.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

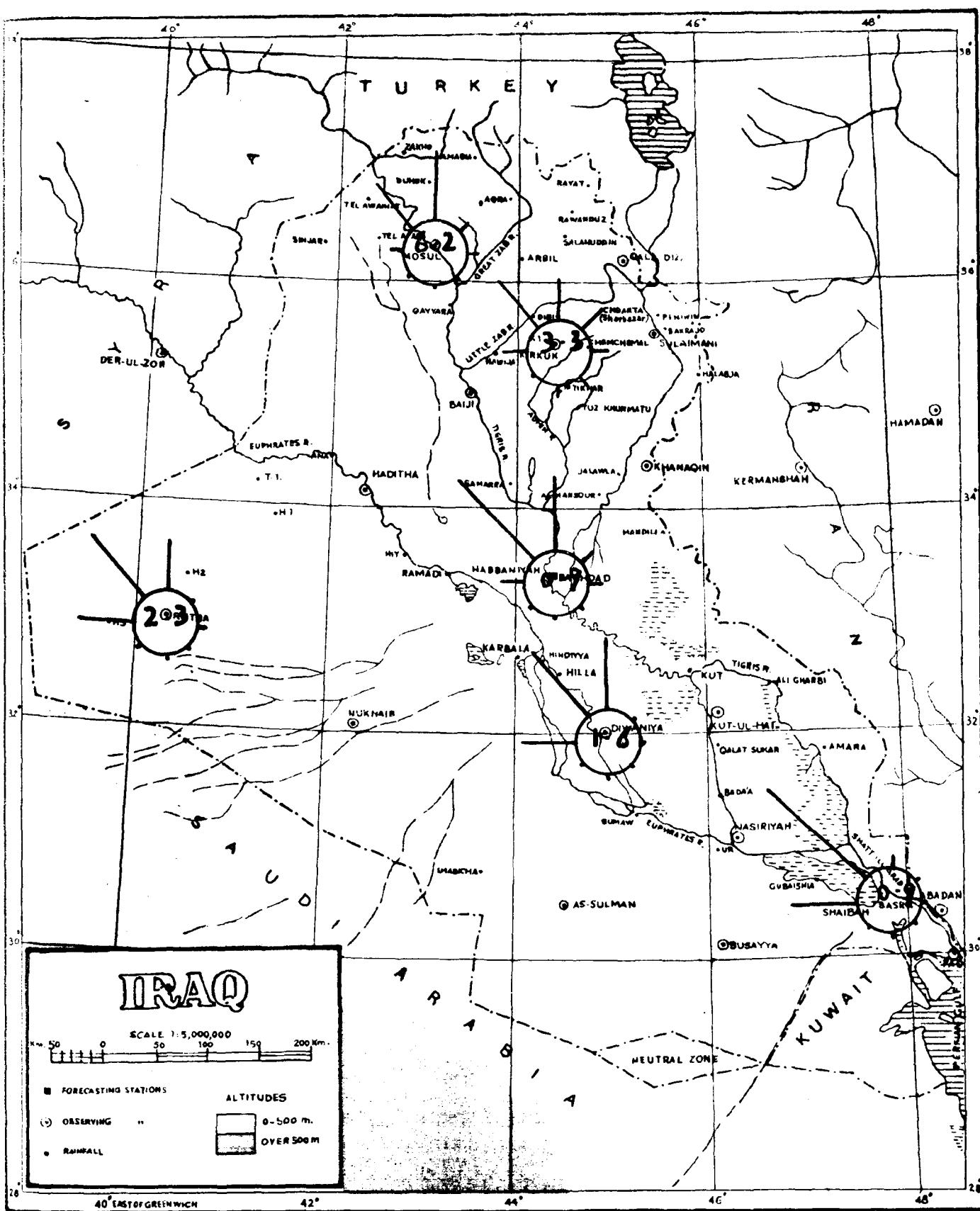
JUNE 0300 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

Average Frequency from Specified Directions
for some selected stations
period of records see page 23

JUNE 0600 G.M.T.

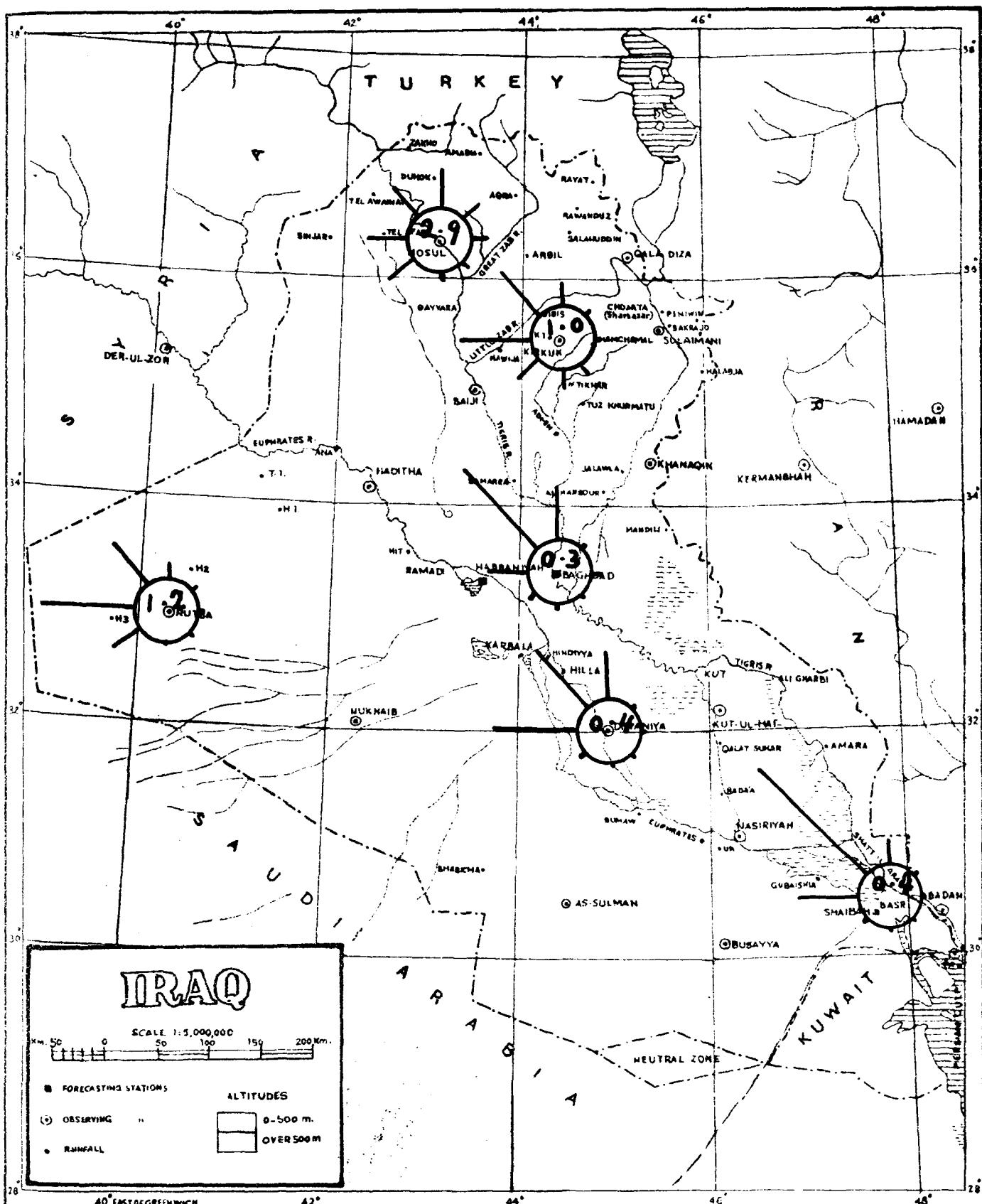


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

193

JUNE 1200 G MT

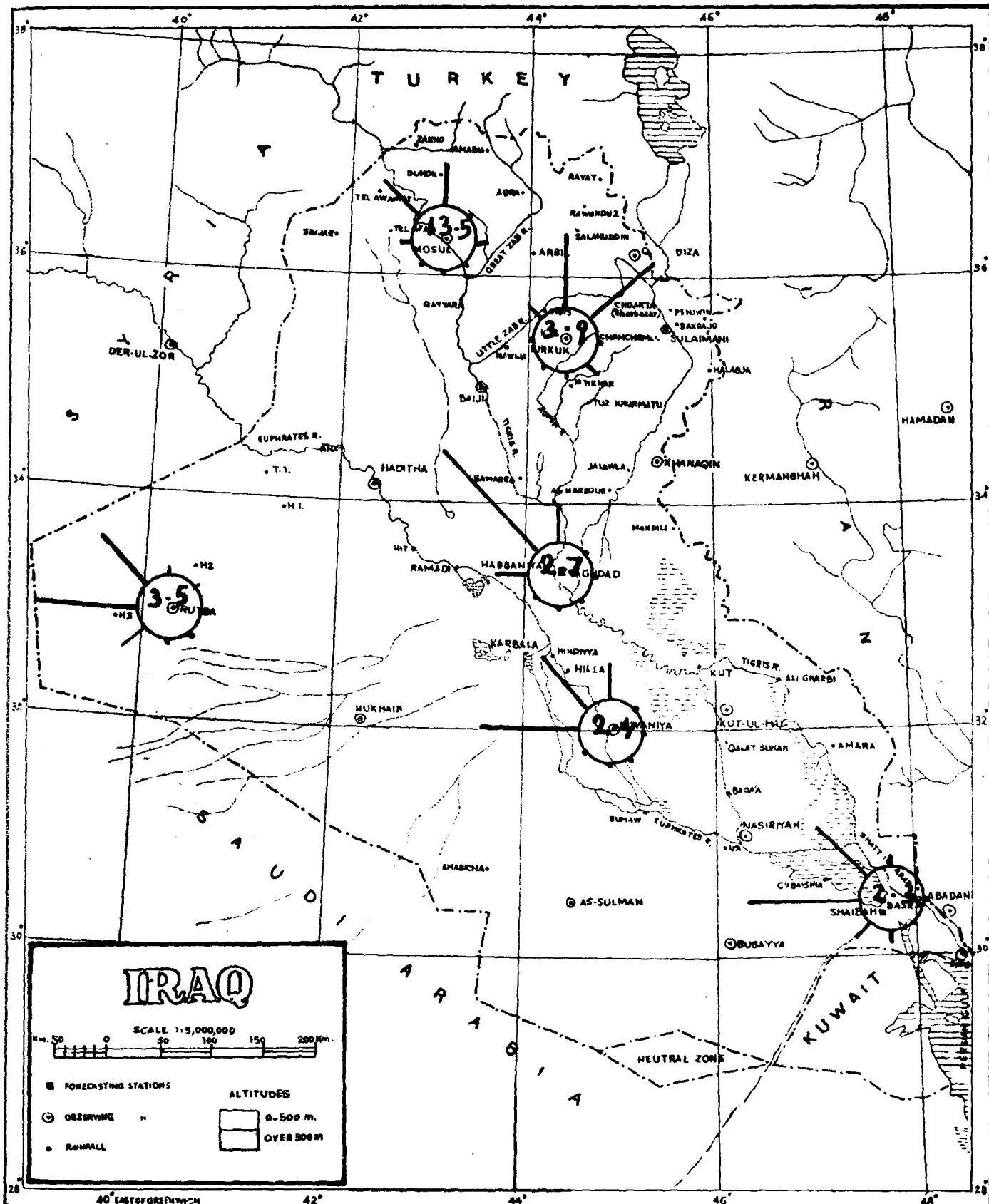


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

194

JULY 0300 GMT.

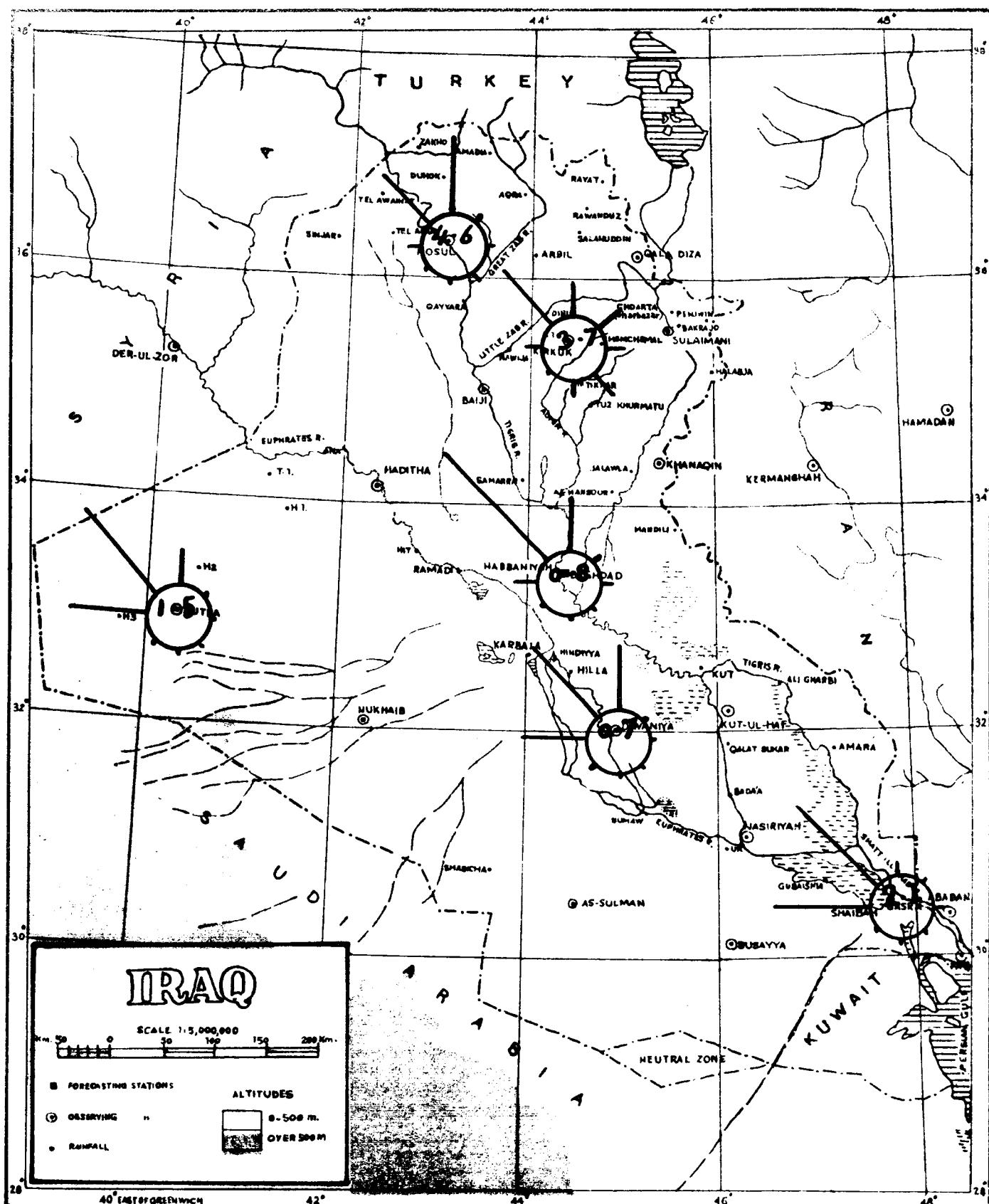


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the case without wind.

SURVEY PRESS, BAGHDAD.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

JULY 0600 GMT.

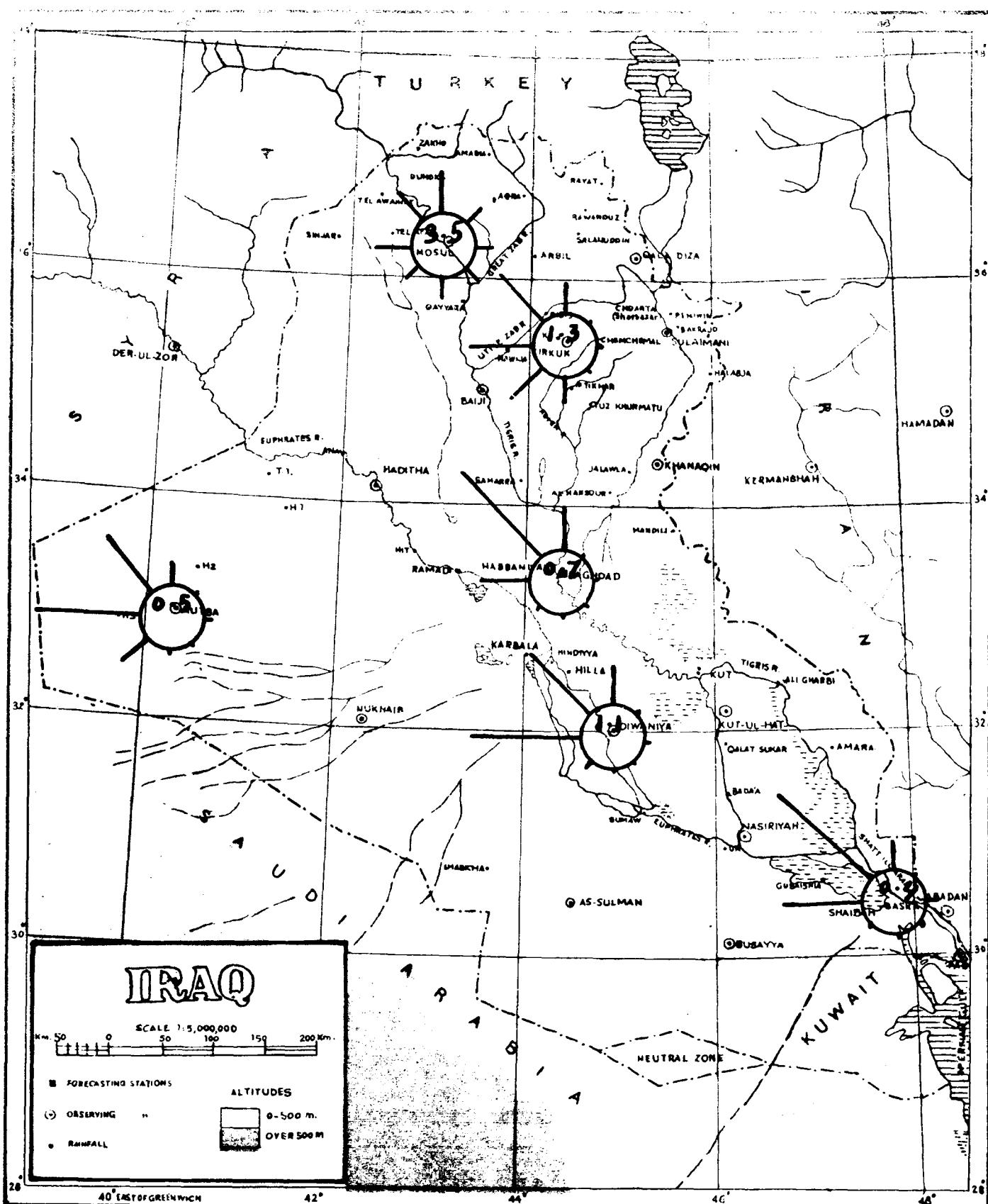


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

196

JULY 1200 GMT.

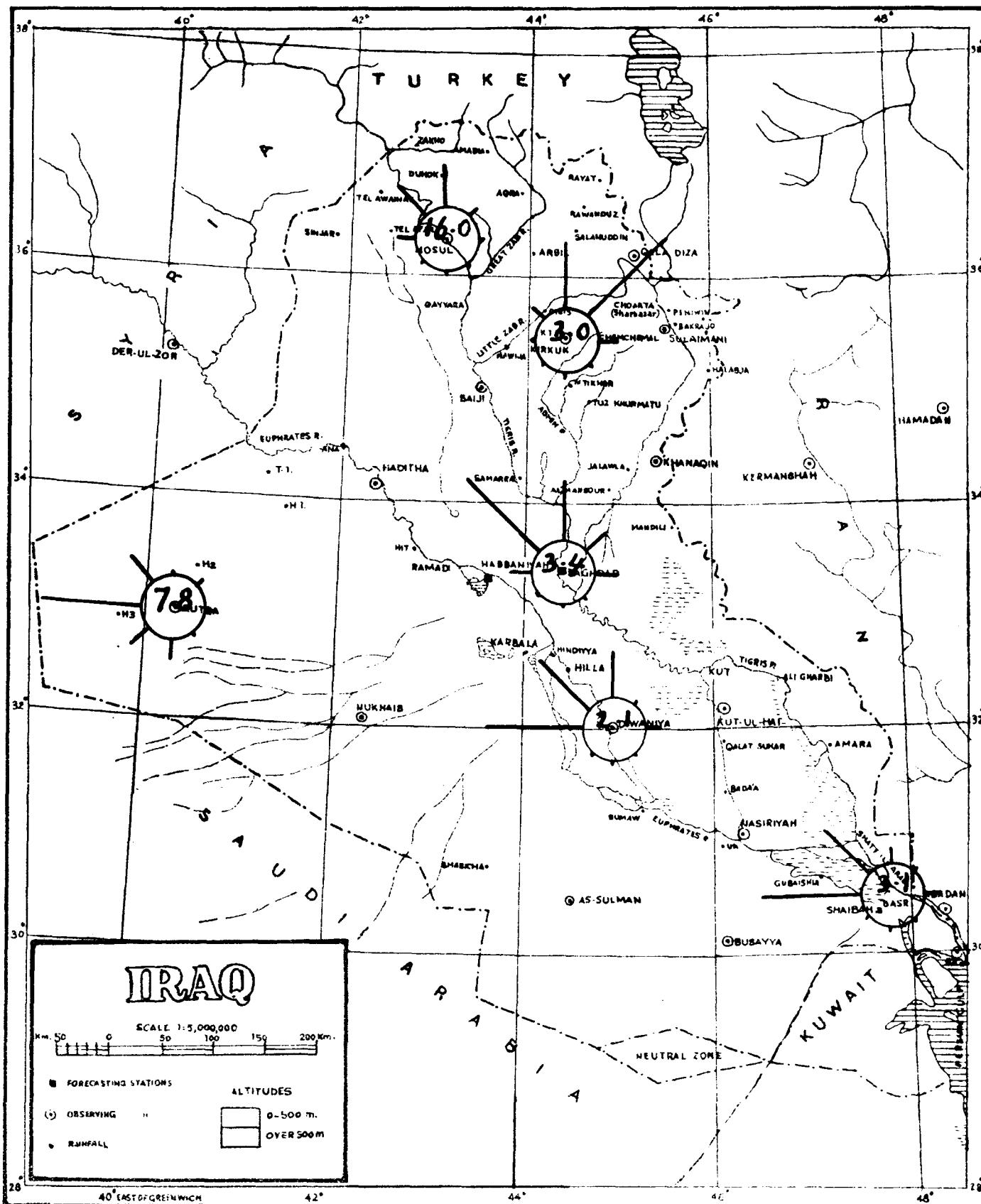


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

197

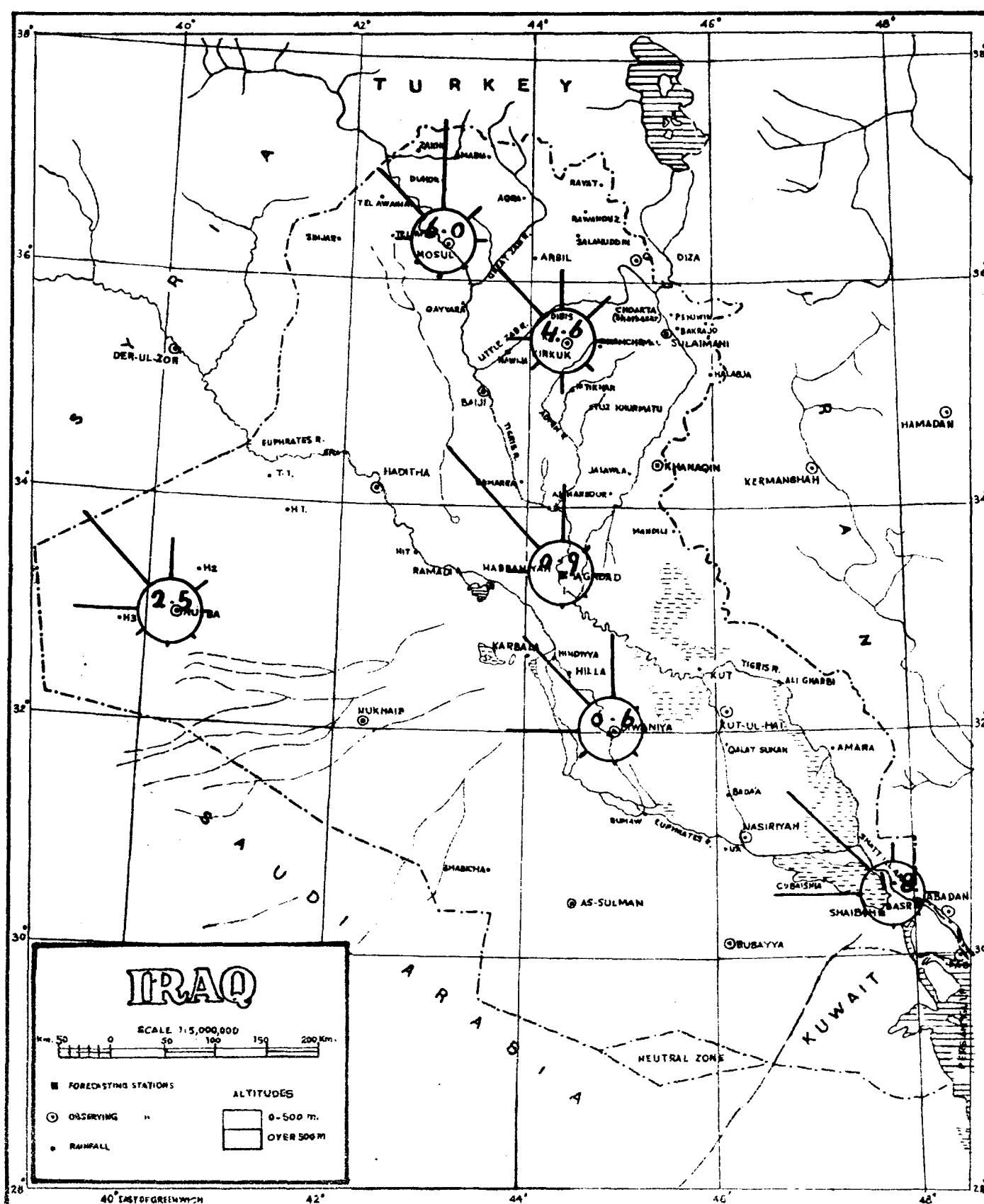
AUGUST 0300 GMT



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

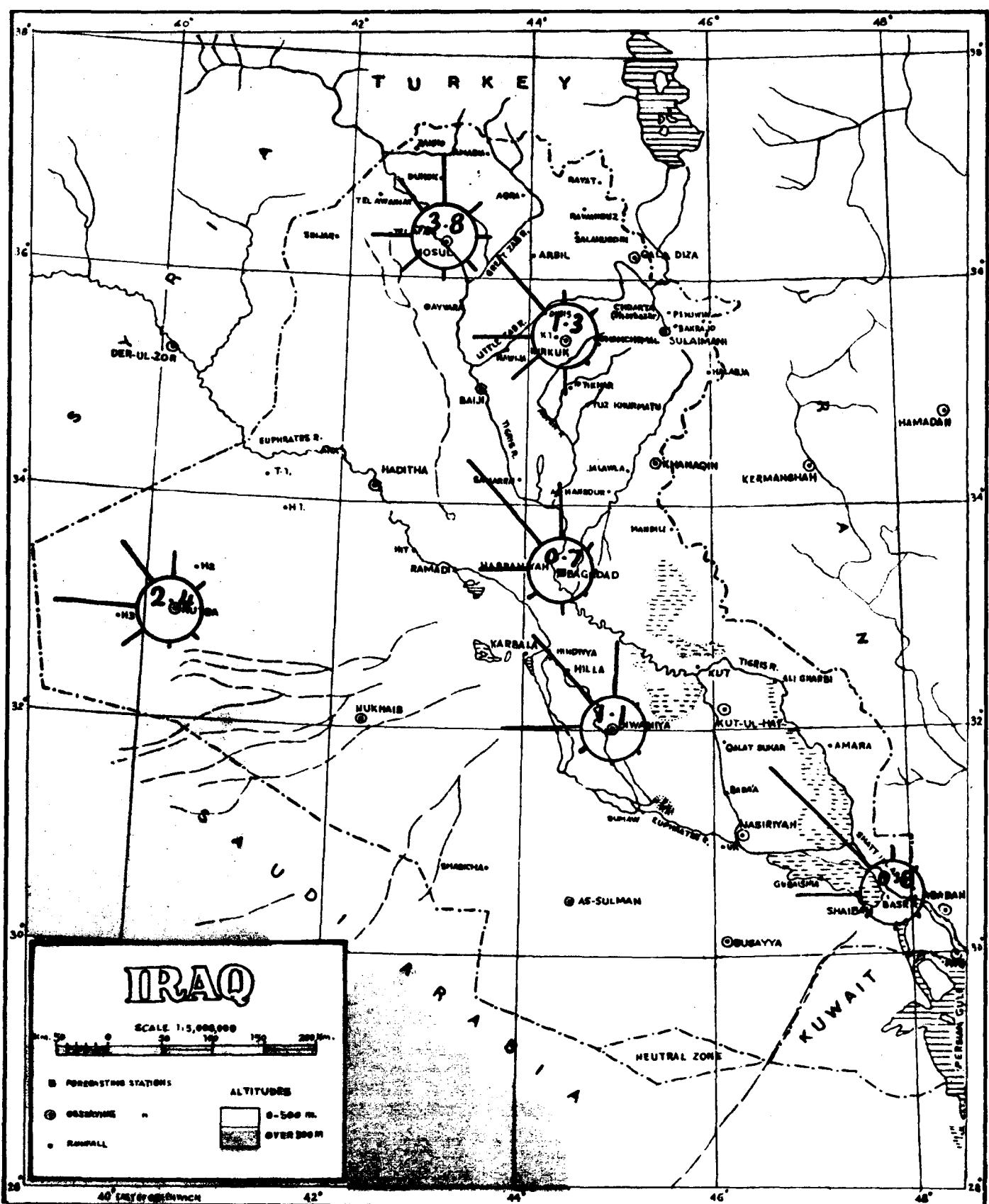
AUGUST 0600 GMT



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

AUGUST 1200 GMT

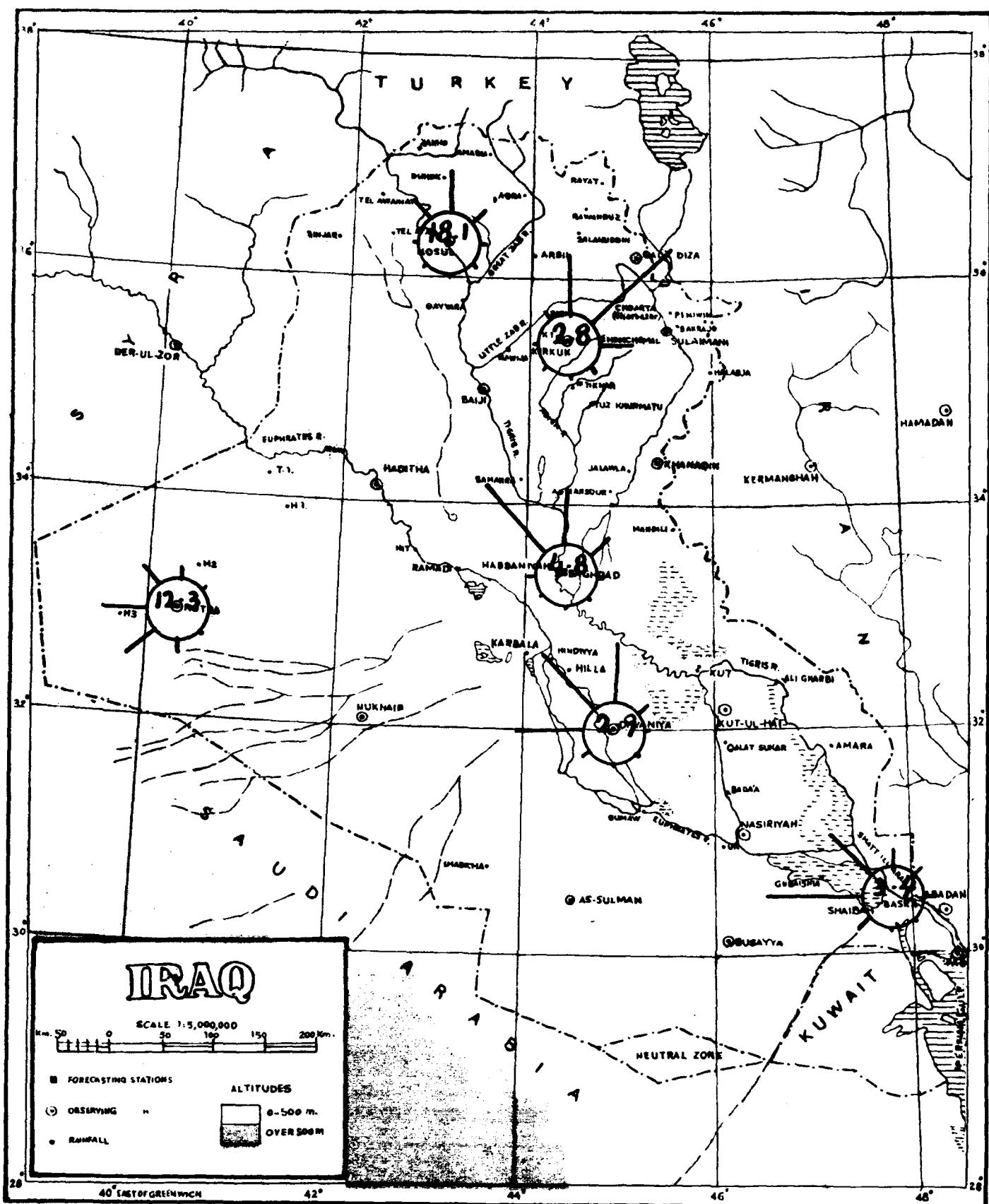


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

200

SEPTEMBER 0300 GMT



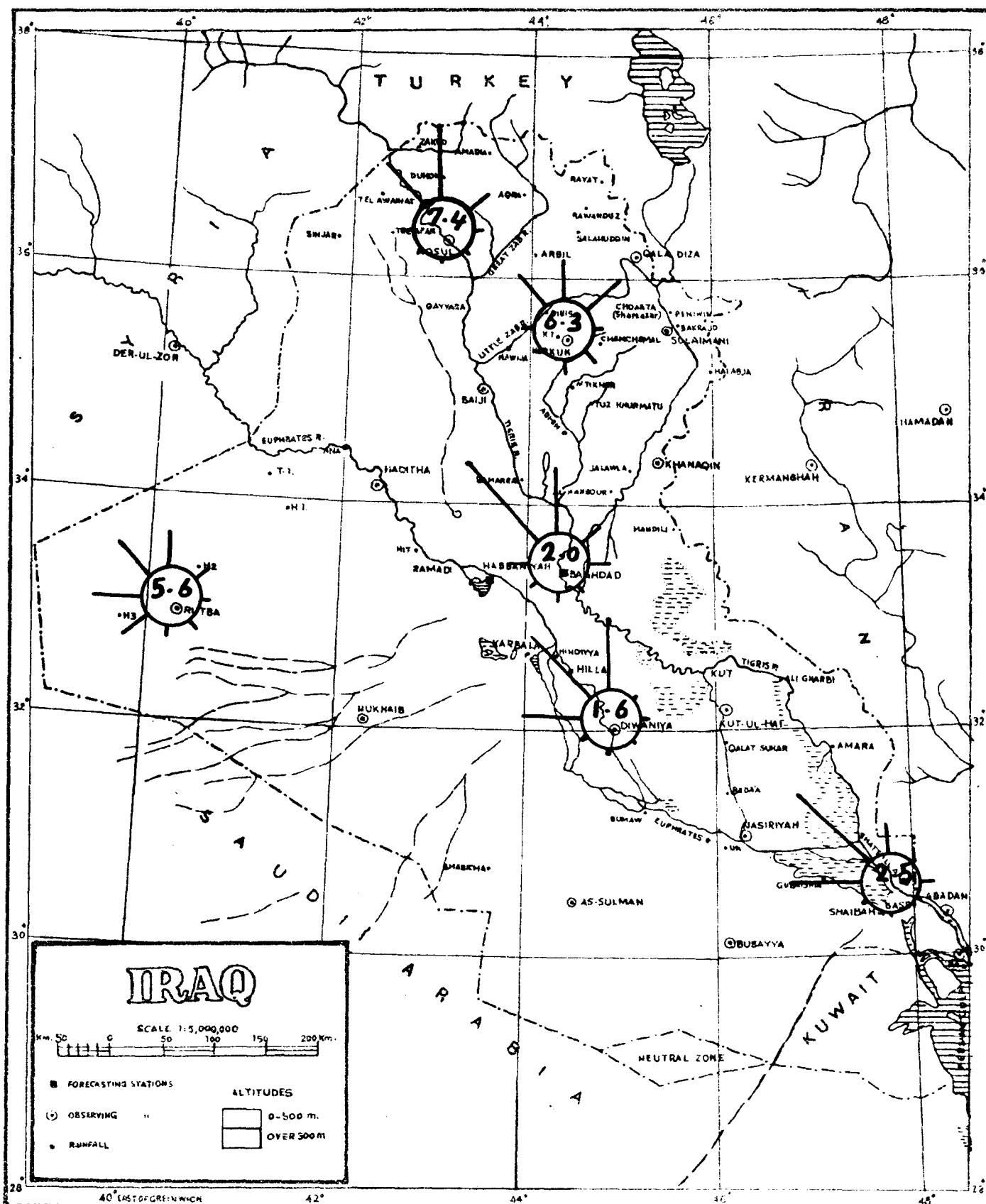
The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS, BAGHDAD.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

201

SEPTEMBER 0600 GMT.

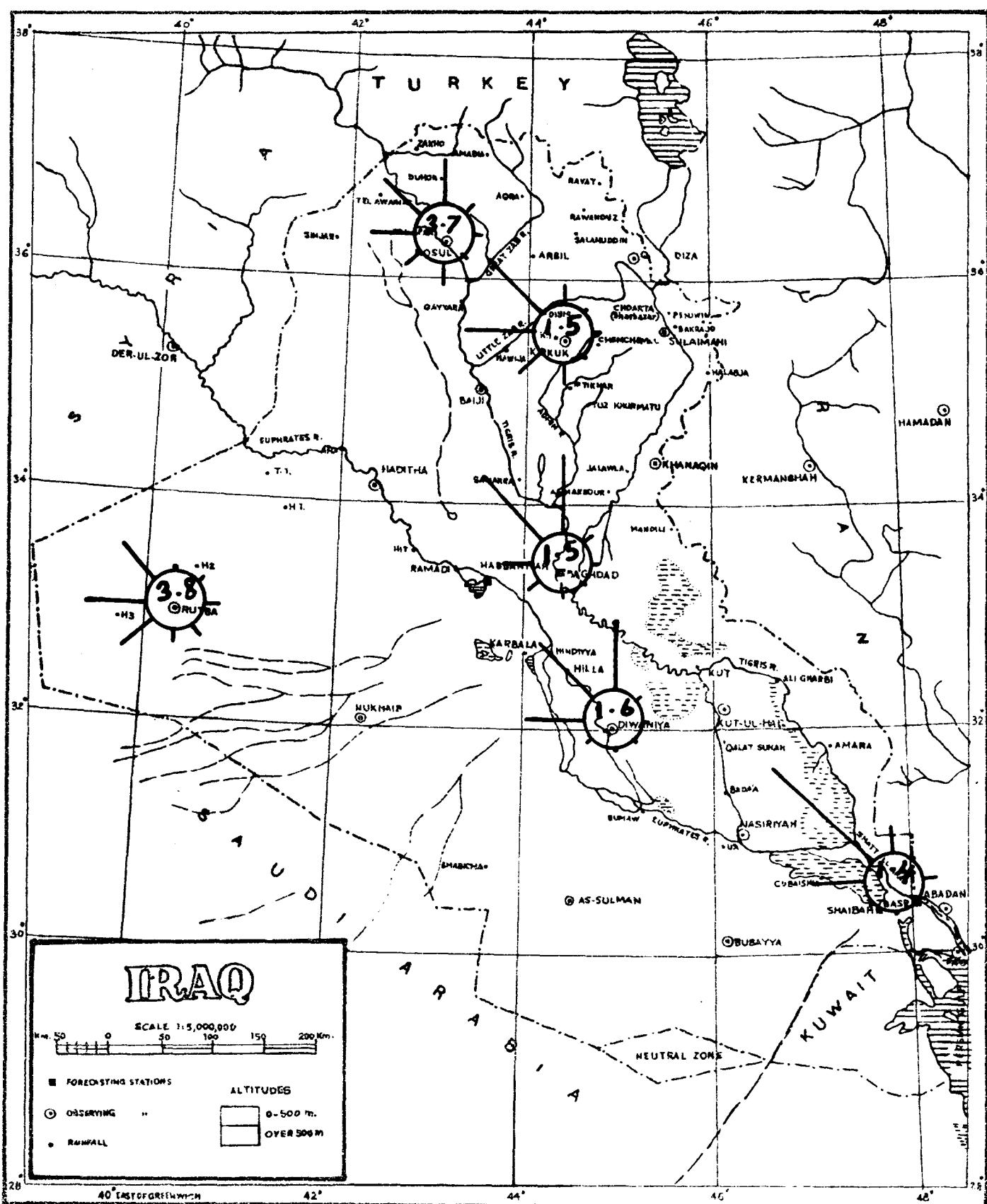


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

SURVEY PRESS BAGHDAD

Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

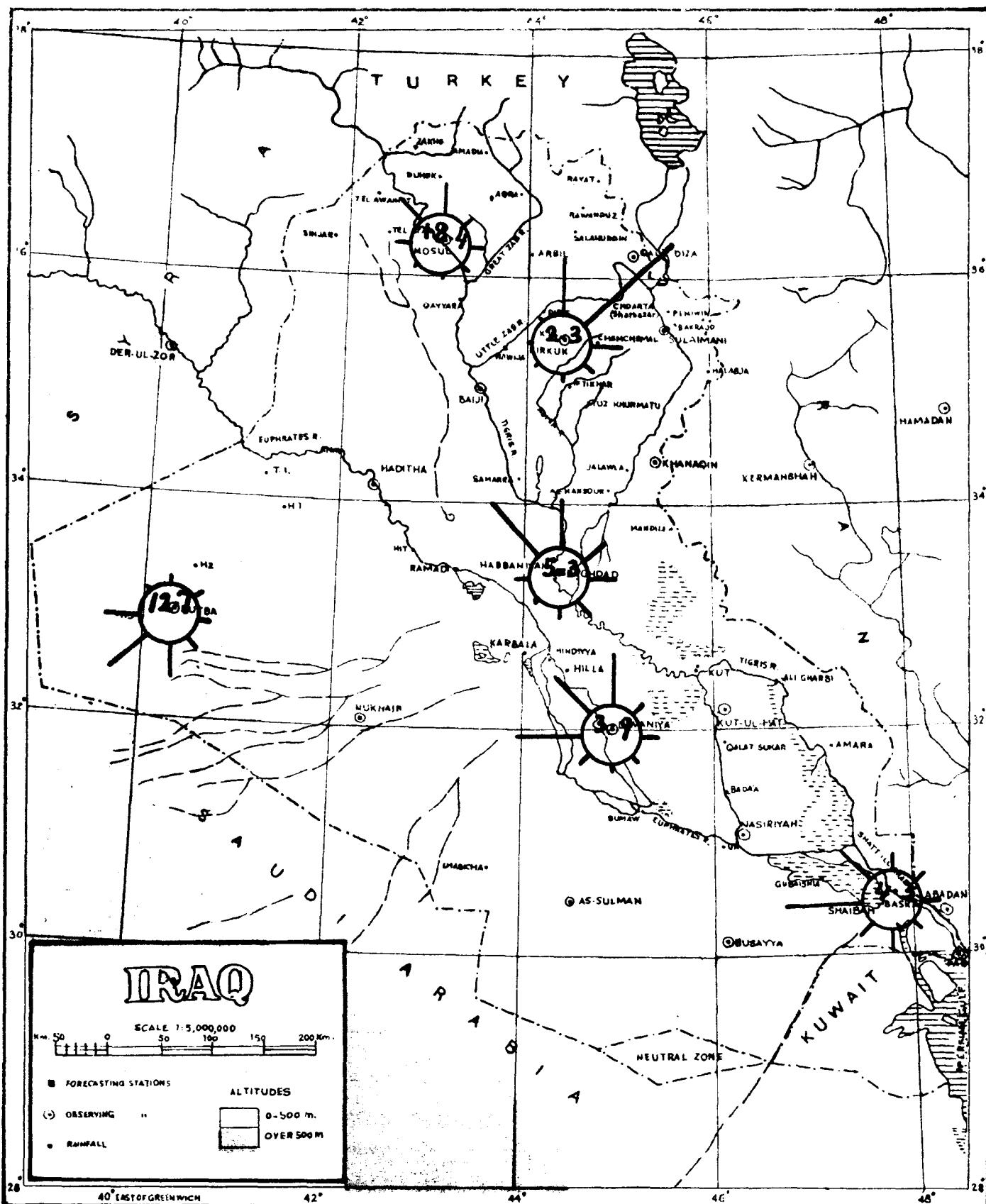
SEPTEMBER 1200 GMT



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the case without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

OCTOBER 0300 GMT

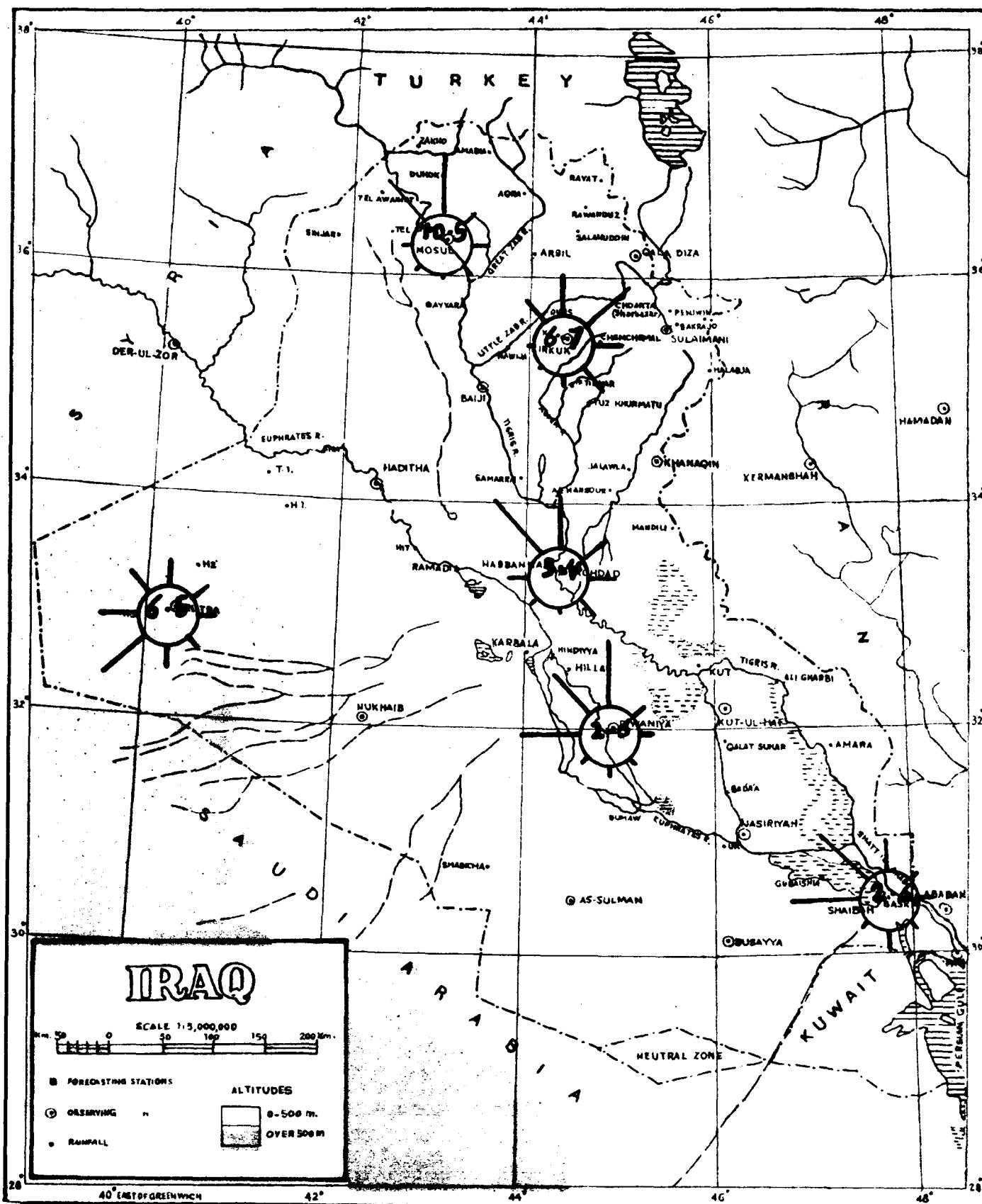


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

204

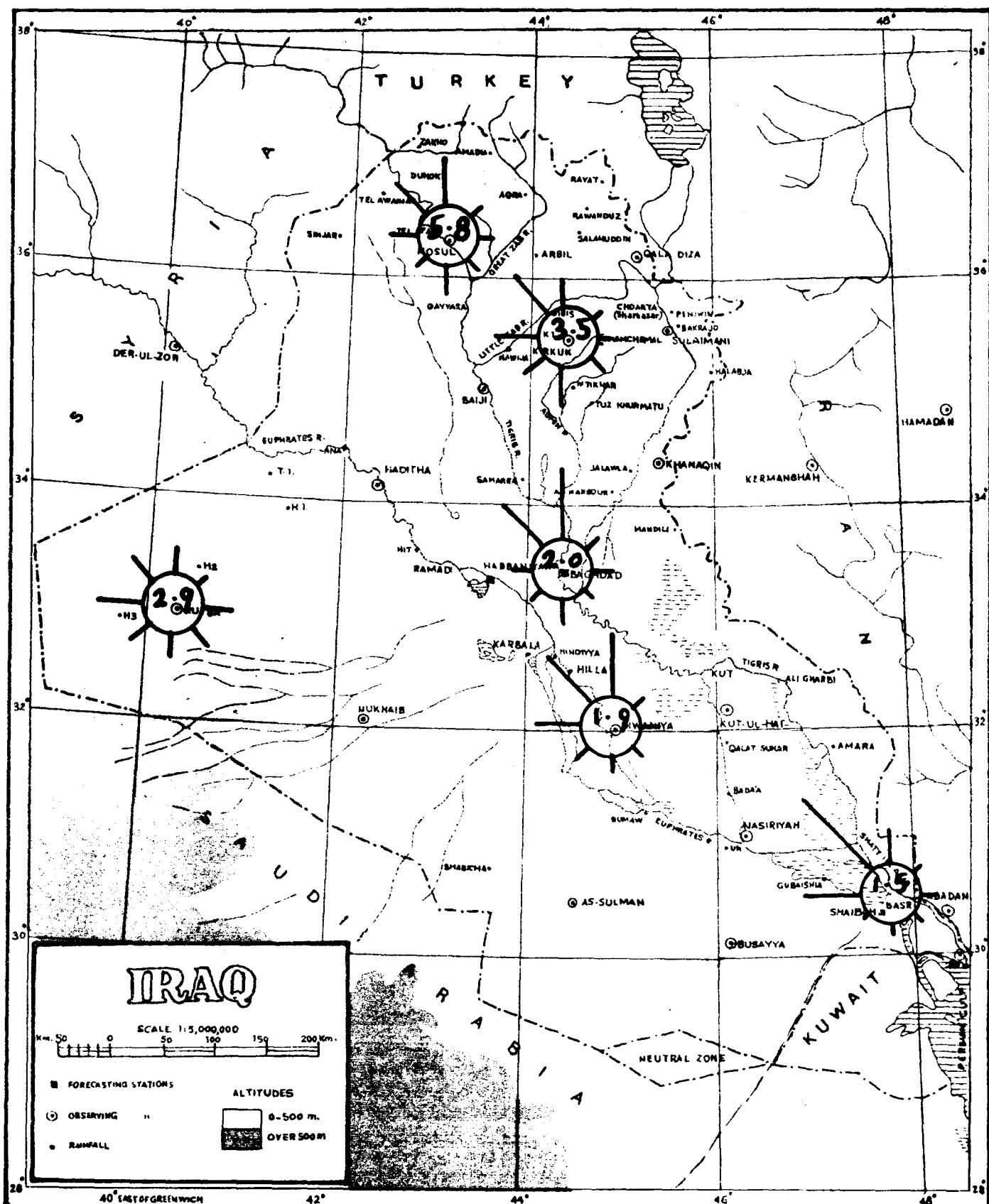
OCTOBER 0600 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

OCTOBER 1200 GMT.

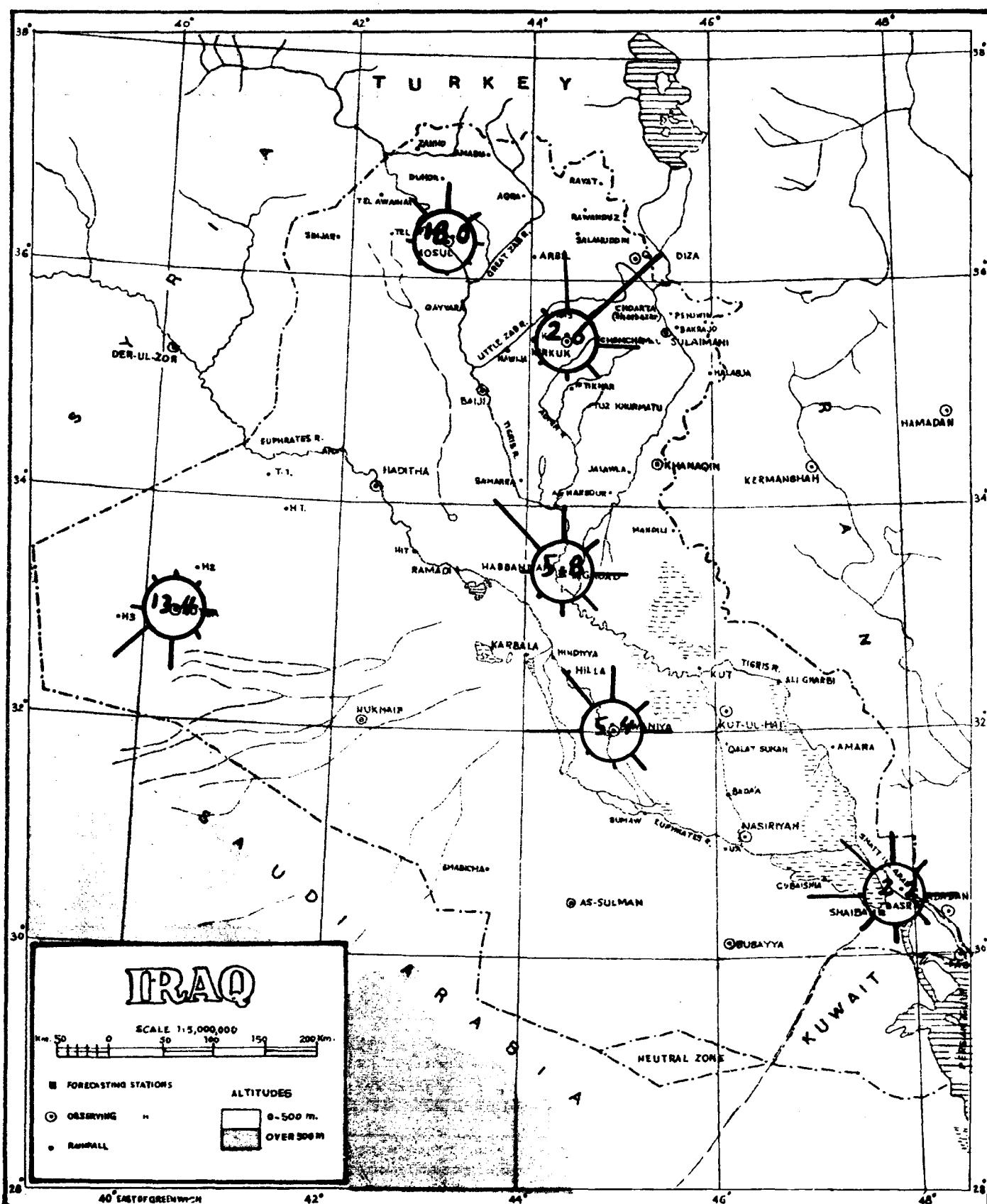


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

206

NOVEMBER 0300 GMT.

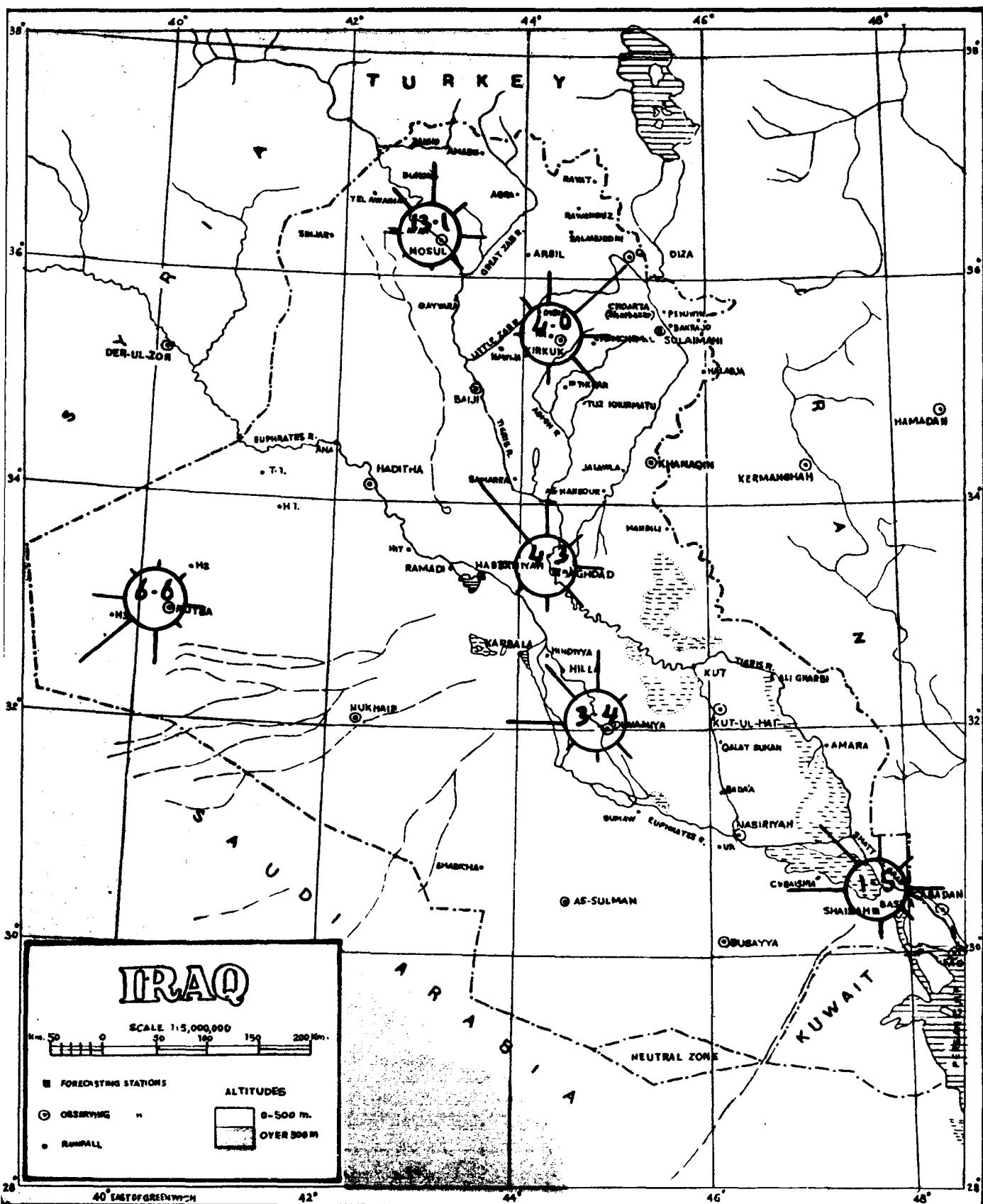


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

207

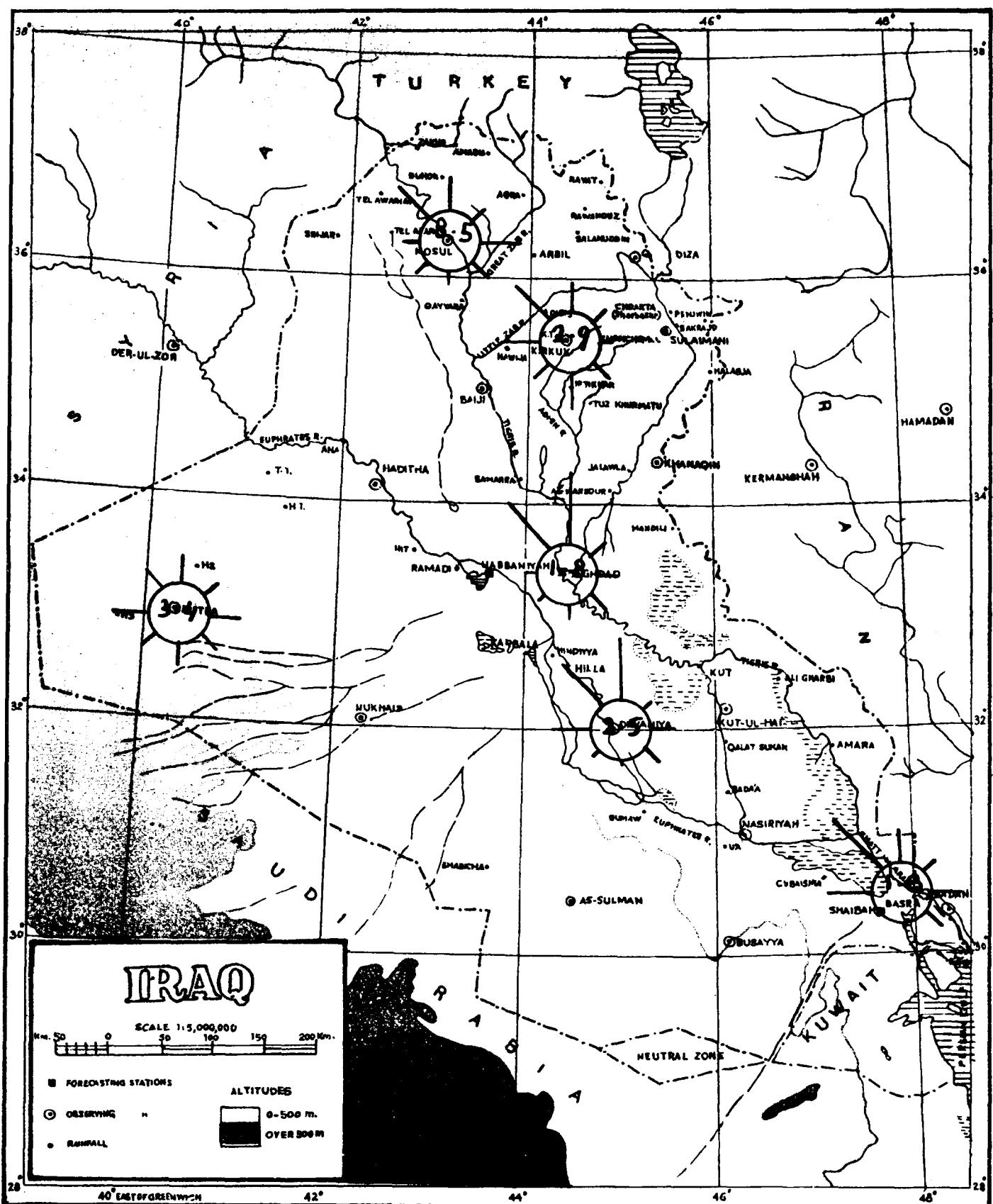
NOVEMBER 0600 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
 period of records see page 2/3

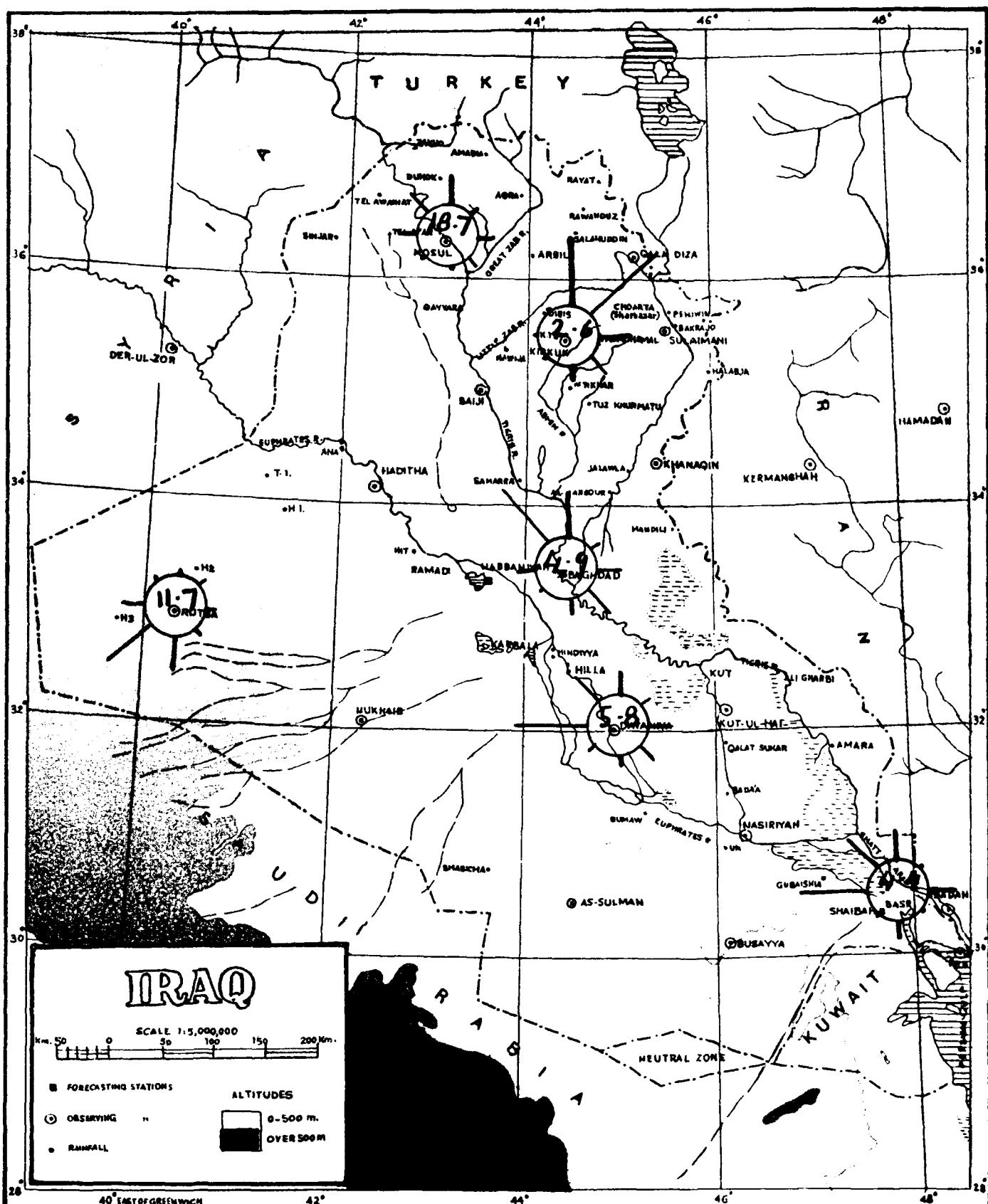
NOVEMBER 1200 GMT



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

DECEMBER 0300 GMT.

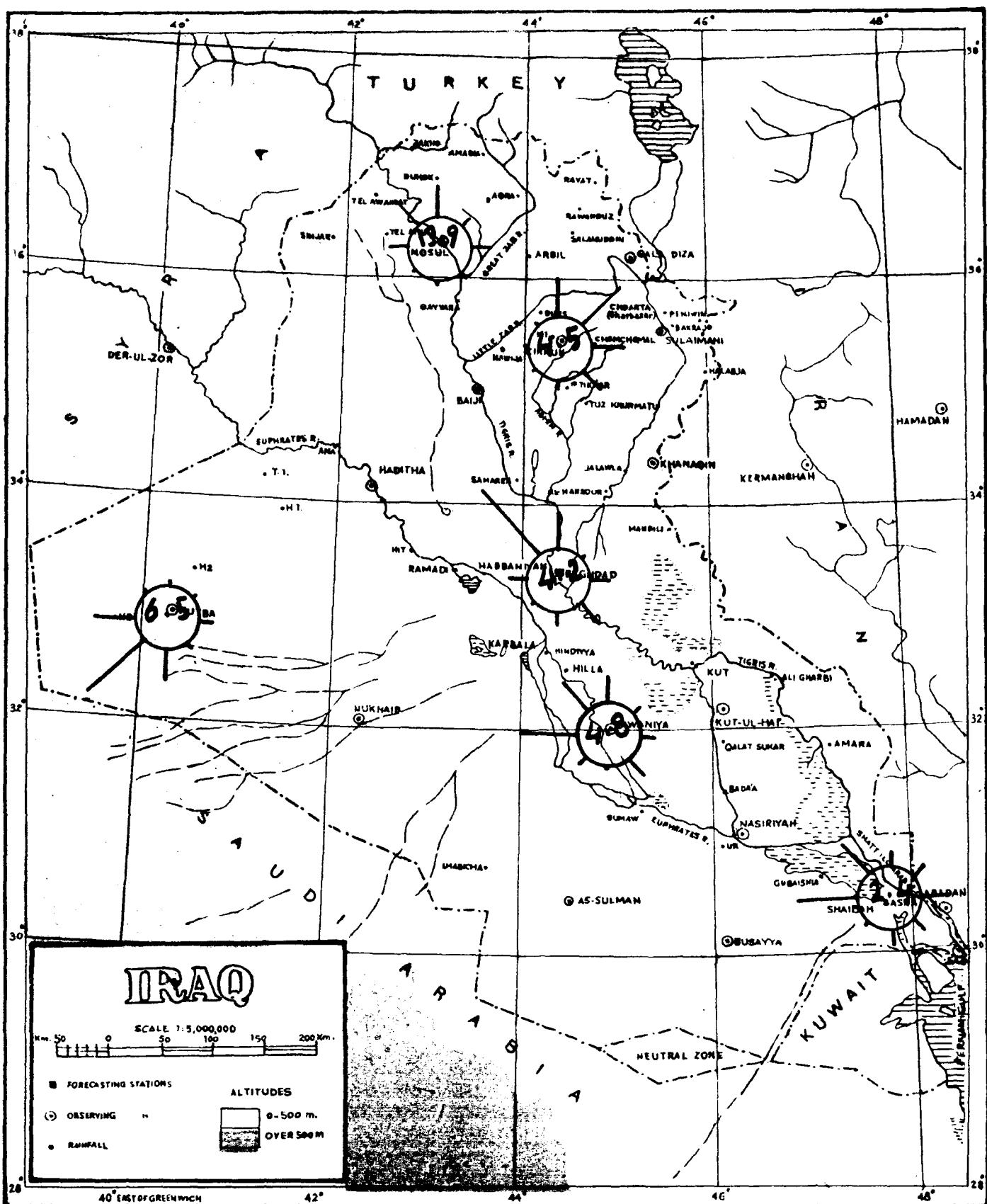


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

210

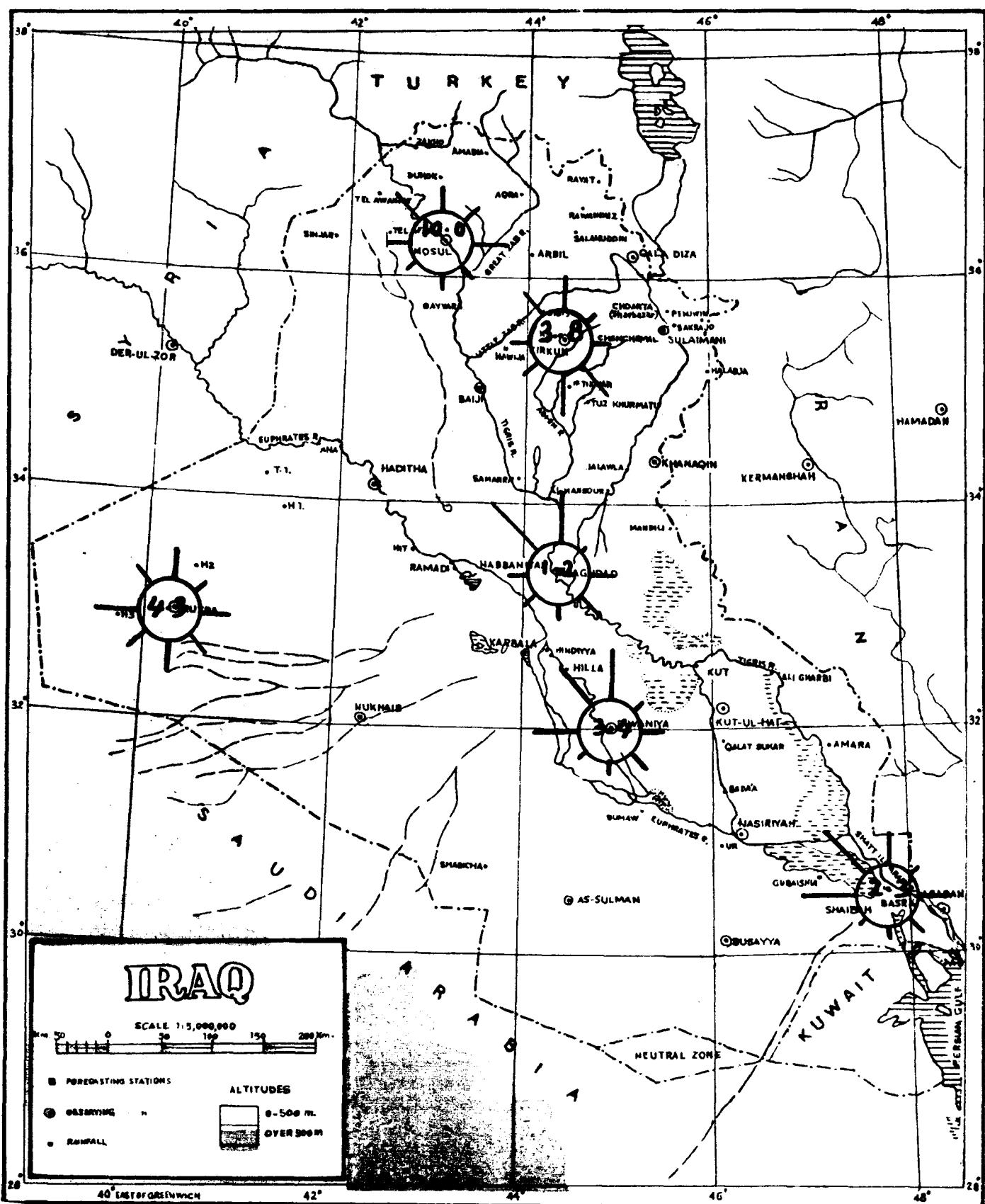
DECEMBER 0600 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the case without wind.

W I N D
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

DECEMBER 1200 GMT.

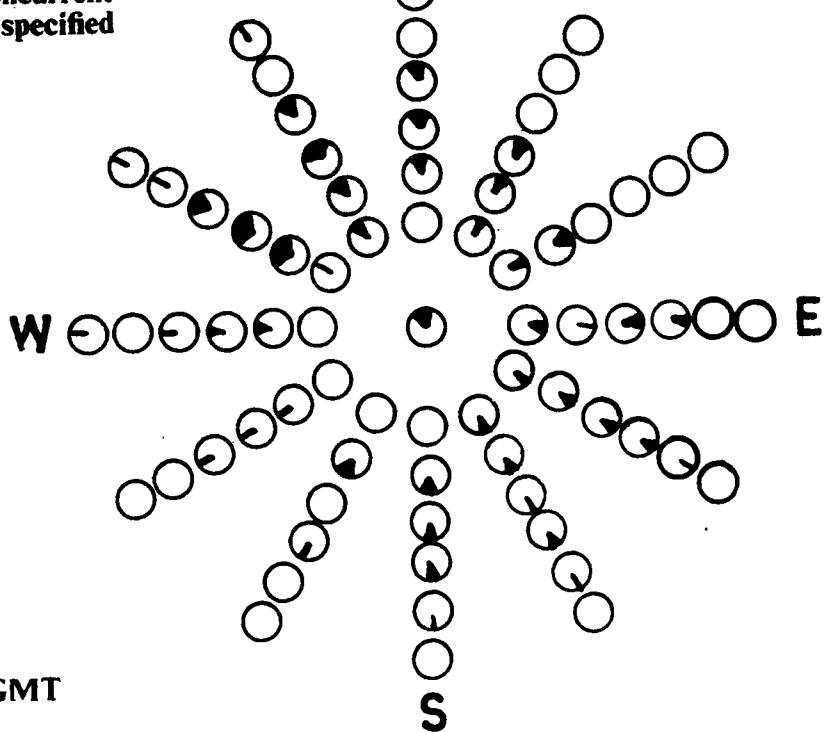


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

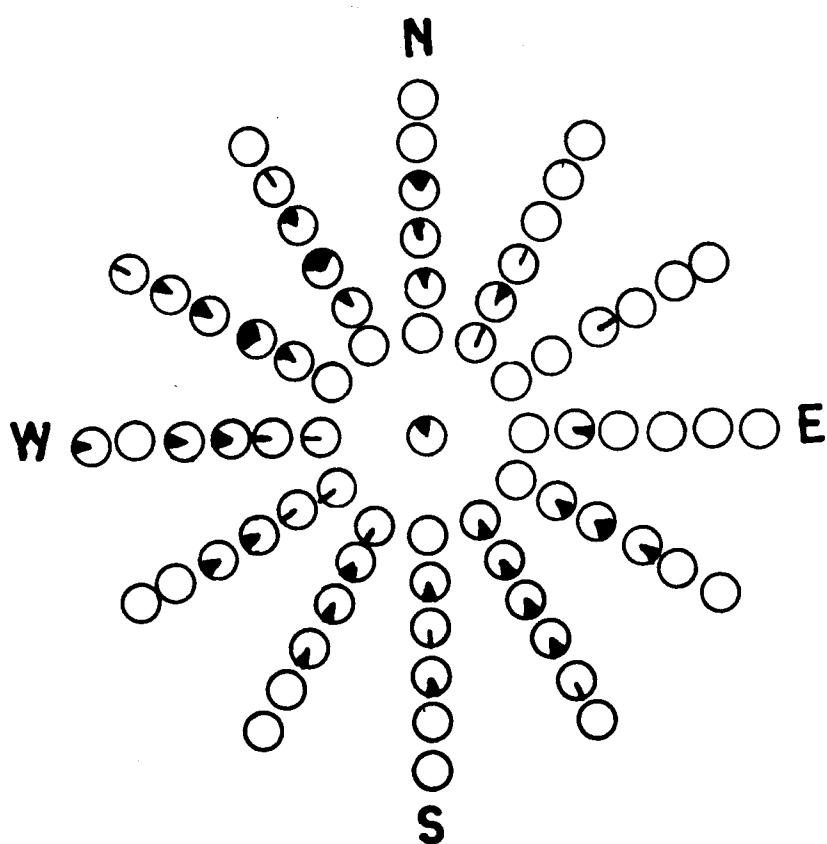
at Baghdad Airport 1951—1955

Mean Number of occurrences of concurrent wind — speed and direction within specified ranges.

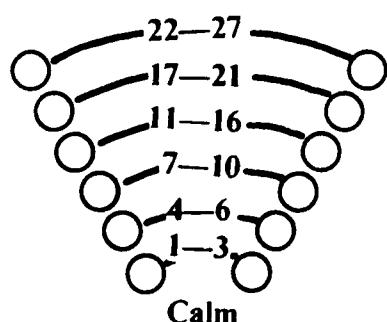
N January 1200 GMT



February 1200 GMT

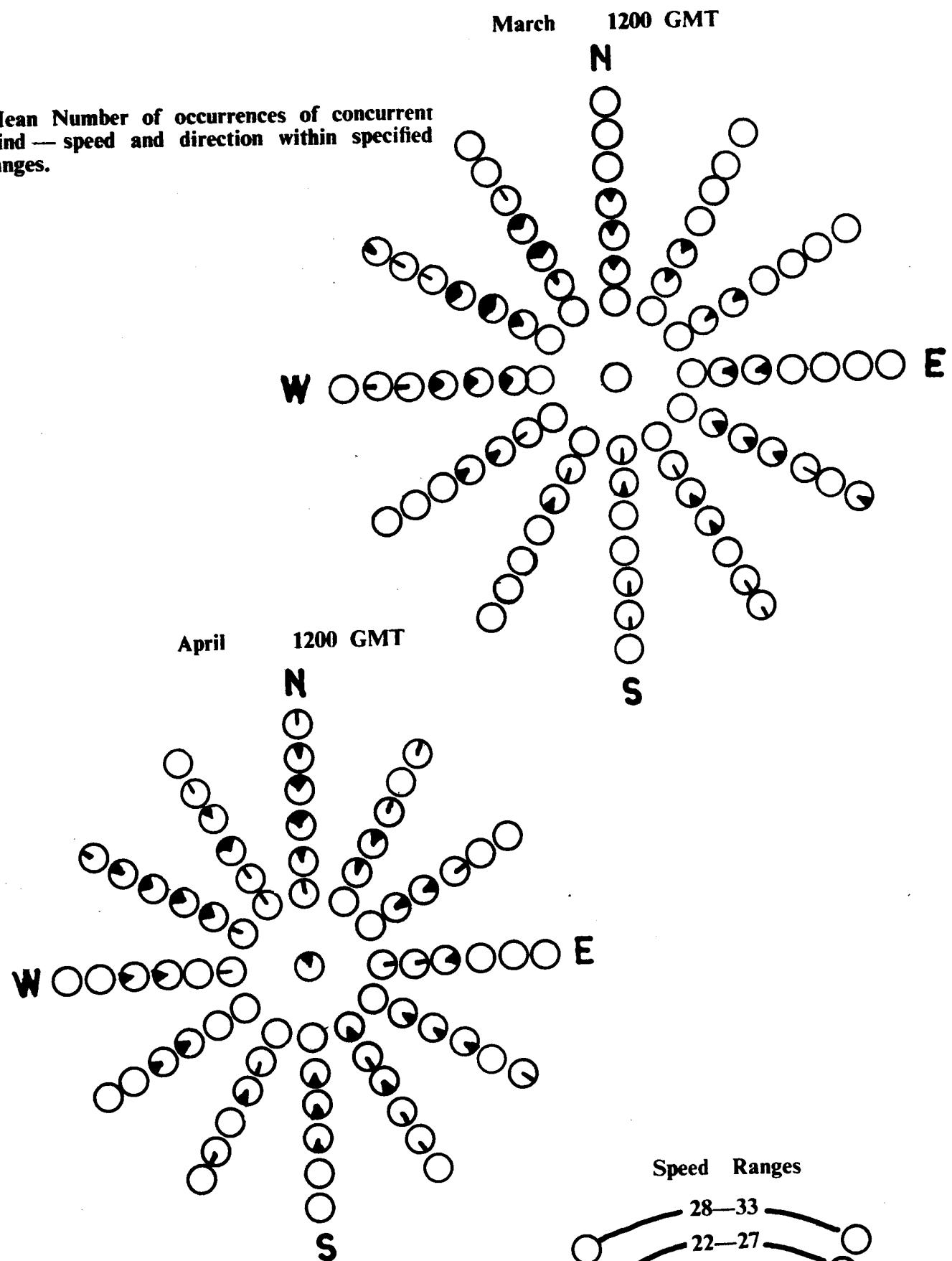


Speed Ranges

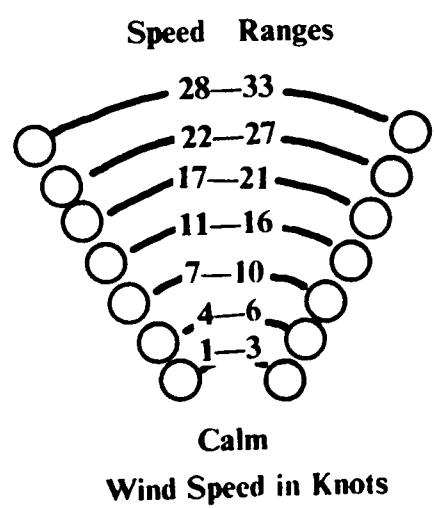


The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

at Baghdad Airport 1951—1955



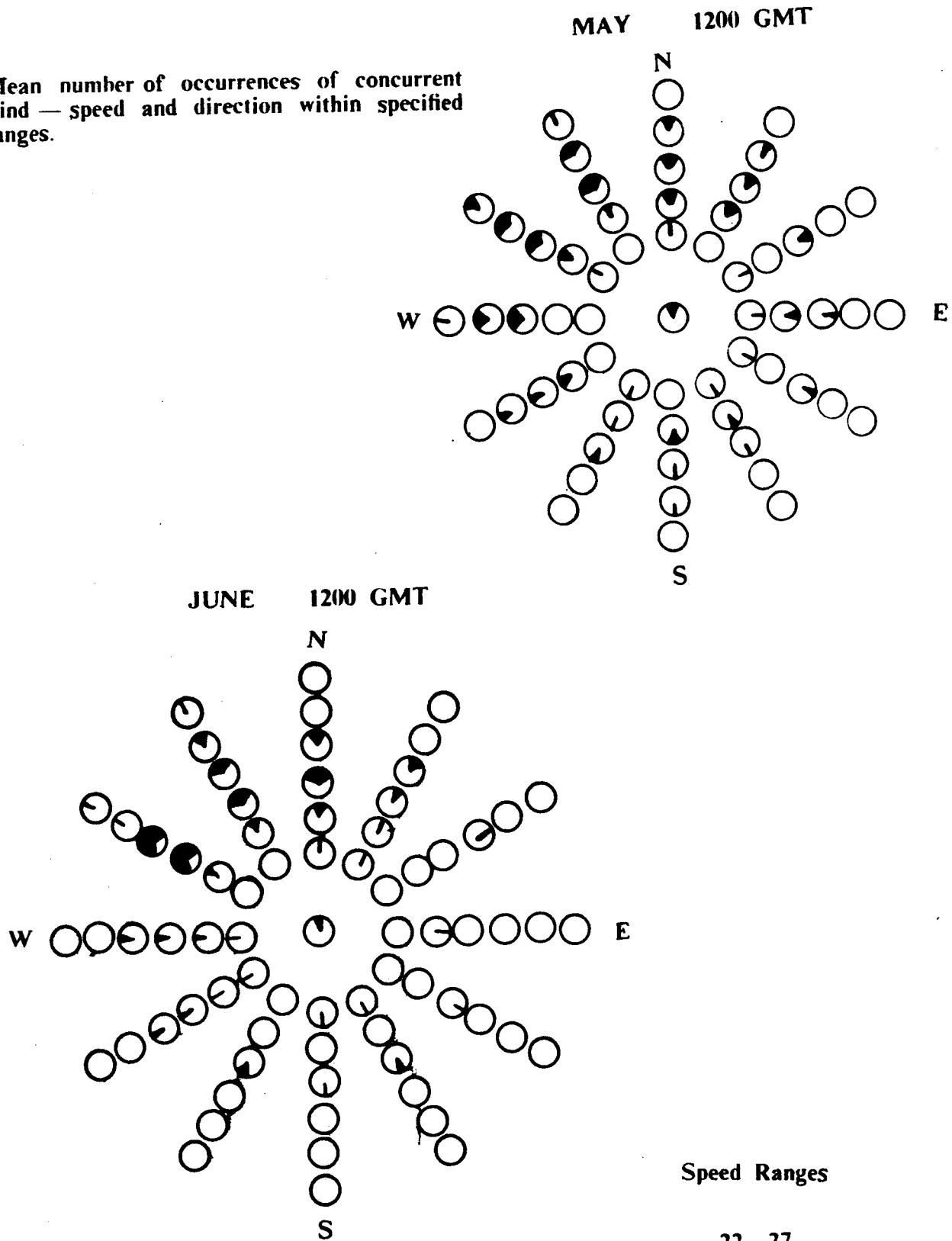
The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.



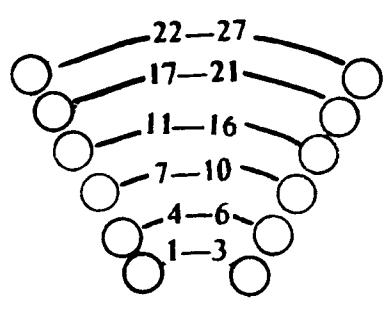
WIND DISTRIBUTION

at Baghdad Airport 1951—1955

Mean number of occurrences of concurrent wind — speed and direction within specified ranges.



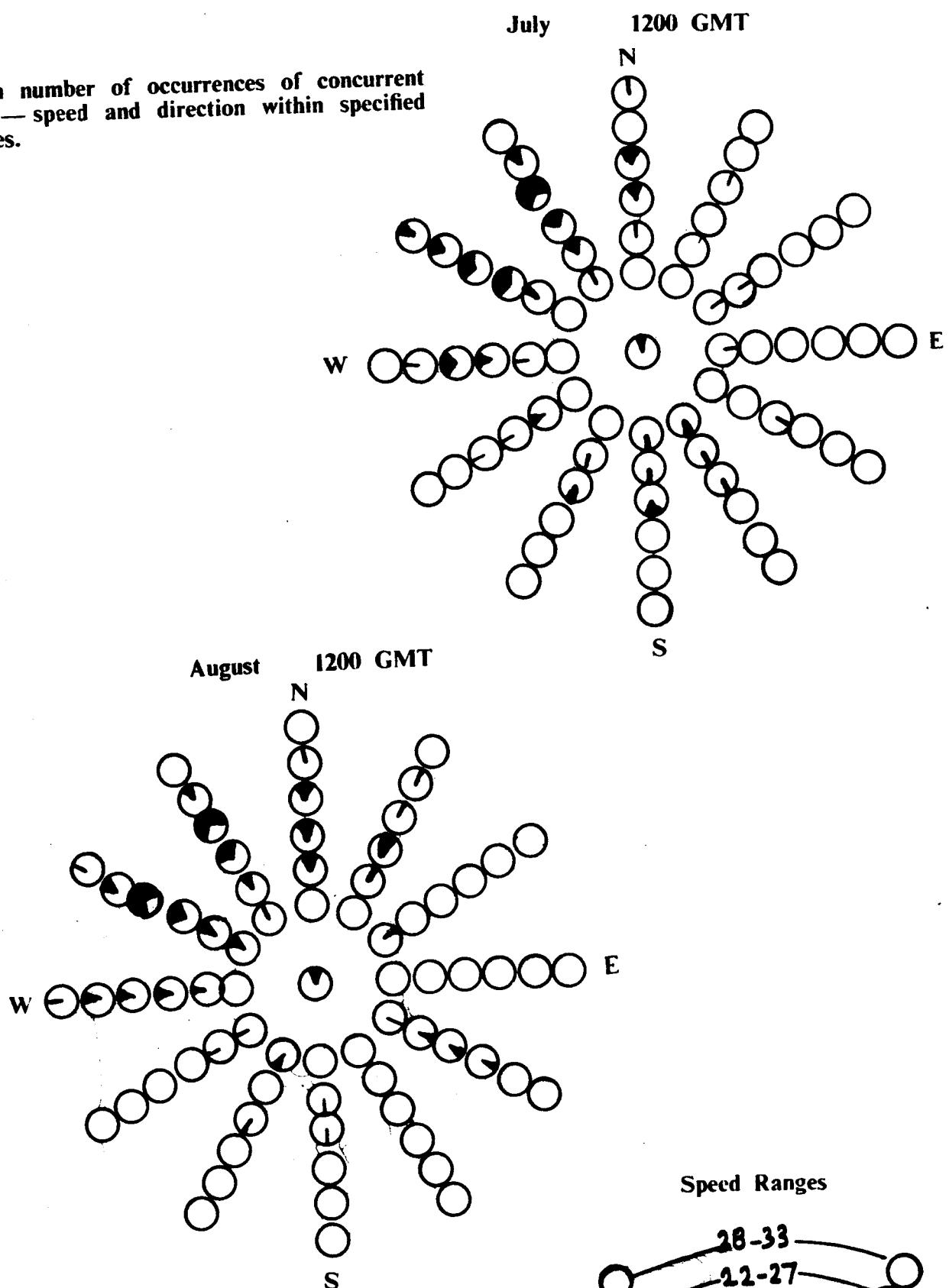
The black sectors represent the mean number of occurrences for the particular wind Speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2. a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.



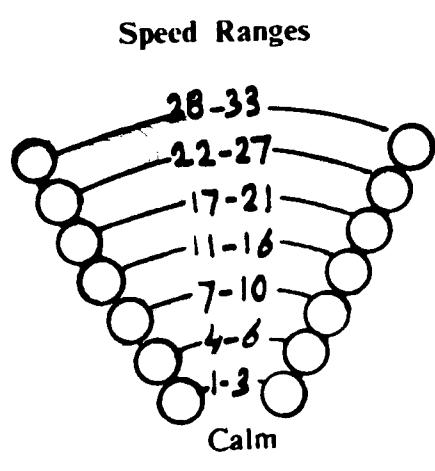
Wind Speed in Knots

at Baghdad Airport 1951—1955

Mean number of occurrences of concurrent wind — speed and direction within specified ranges.



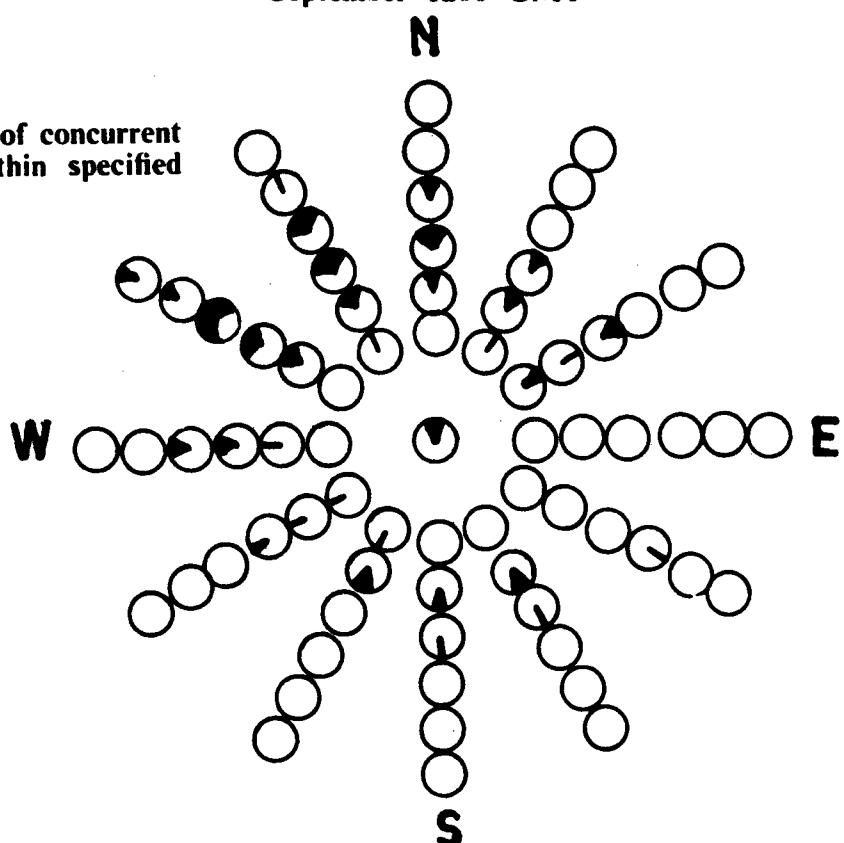
The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.



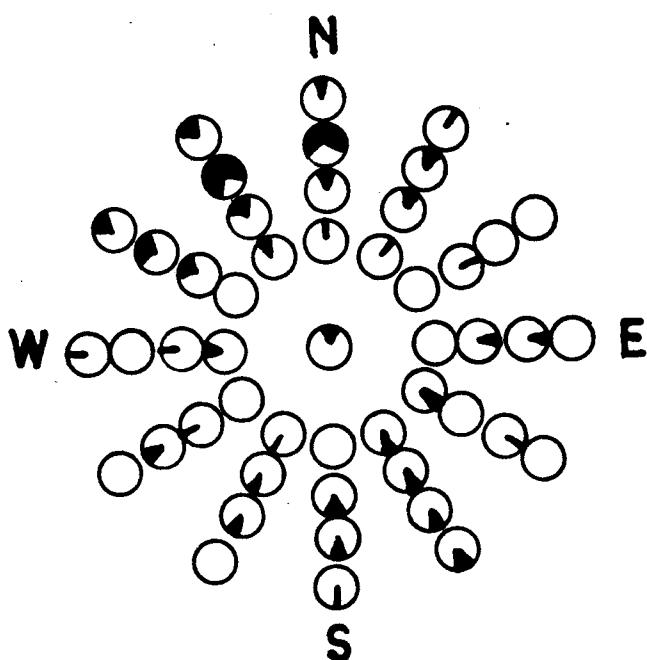
Wind Speed in Knots

September 1200 GMT

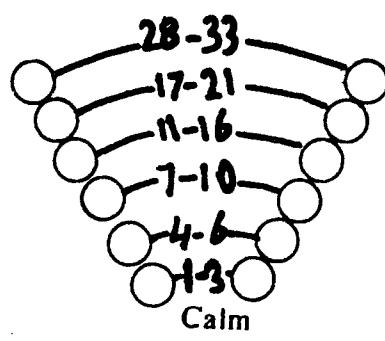
Mean number of occurrences of concurrent wind — speed and direction within specified ranges.



October 1200 GMT



Speed Ranges



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

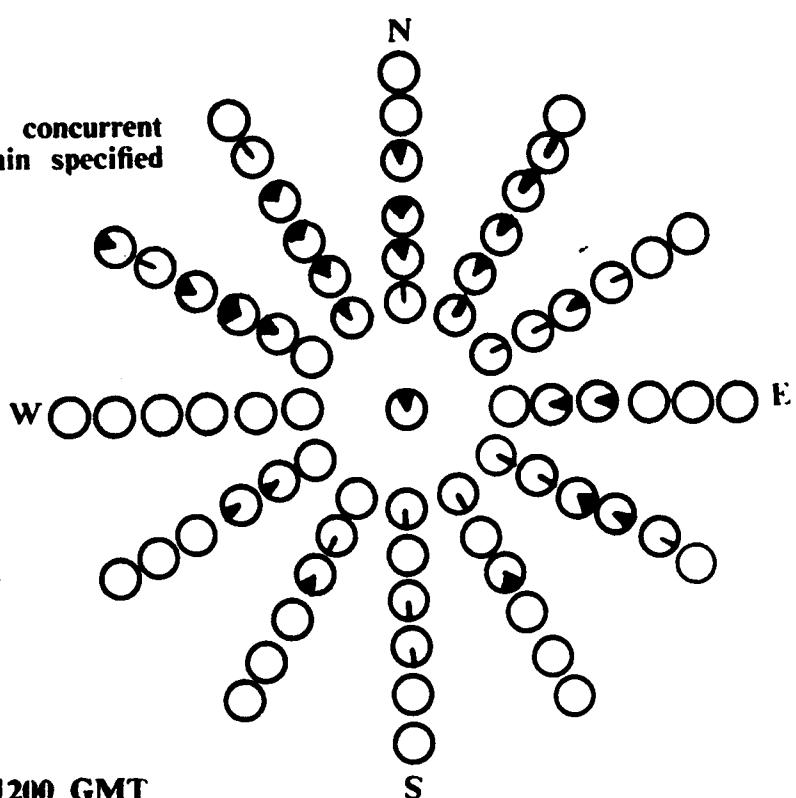
Wind Speed in Knots

WIND DISTRIBUTION

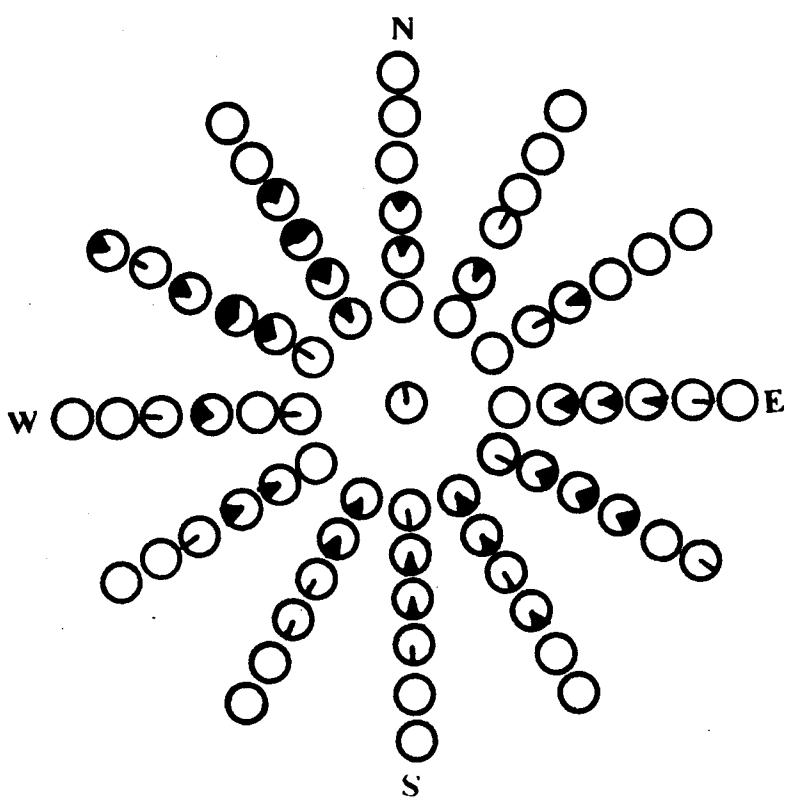
at Baghdad Airport 1951—1955

NOVEMBER 1200 GMT

Mean number of occurrences or concurrent wind — speed and direction within specified ranges.



DECEMBER 1200 GMT



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

